

DIABETES

LITERATURE INDEX

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CONTENTS

PREFACE	<i>Page</i> iv
EDITORIAL NOTE	v
HIERARCHICAL INDEX	
Arrangement of the HIERARCHICAL INDEX.....	989
MEDLARS Terms Included in HIERARCHICAL INDEX	991
KEYWORD INDEX	1031
AUTHOR INDEX	1117

PREFACE

Diabetes Literature Index is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

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Diabetes Literature Index
National Institute of Arthritis,
Metabolism, and Digestive Diseases
Building 31, Room 9A-03
Bethesda, Maryland 20014

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1981.

EDITORIAL NOTE

Diabetes Literature Index, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

Hierarchical Subject Index: This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

Key Word Index: For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are

eliminated. In no case, however, is a change made within the title itself. Words which have not appeared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

Author Index: All authors in multiple author publications are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

Arrangement of the Hierarchical Index

I	SECTION 1. DIABETES MELLITUS AND RELATED TOPICS	I.E.3.5	HYPERGLYCEMIA, DRUG THERAPY
I.A	ISLANDS OF LANGERHANS	I.E.3.6	HYPERGLYCEMIA, ETIOLOGY
I.A.1	ISLANDS OF LANGERHANS, ANATOMY RELATED	I.E.3.7	HYPERGLYCEMIA, METABOLISM
I.A.2	ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED	I.E.3.8	HYPERGLYCEMIA, PHYSIOPATHOLOGY
I.A.3	ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED	I.E.3.9	HYPERGLYCEMIA, URINE
I.A.4	ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED	I.E.4	GLYCOSURIA
I.A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	I.E.4.1	GLYCOSURIA, CHEMICALLY INDUCED
I.B	PANCREAS	I.E.4.2	GLYCOSURIA, COMPLICATIONS
I.B.1	PANCREAS, ANATOMY RELATED	I.E.4.3	GLYCOSURIA, DIAGNOSIS
I.B.2	PANCREAS, BIOCHEMISTRY RELATED	I.E.4.4	GLYCOSURIA, DRUG THERAPY
I.B.3	PANCREAS, PHYSIOLOGY RELATED	I.E.4.5	GLYCOSURIA, ENZYMOLOGY
I.B.4	PANCREAS, PHARMACOLOGY RELATED	I.E.4.6	GLYCOSURIA, ETIOLOGY
I.B.5	PANCREAS, PATHOLOGY RELATED	I.E.4.7	GLYCOSURIA, METABOLISM
I.B.6	PANCREAS, SURGERY RELATED	I.E.4.8	GLYCOSURIA, OCCURRENCE
I.B.6.1	PANCREAS, TRANSPLANTATION	I.E.5	GLYCOSURIA, RENAL
I.B.6.2	PANCREATECTOMY	I.E.6	HYPOGLYCEMIA
I.C	INSULIN	I.E.6.1	HYPOGLYCEMIA, BLOOD
I.C.1	INSULIN, BIOCHEMISTRY RELATED	I.E.6.2	HYPOGLYCEMIA, CHEMICALLY INDUCED
I.C.1.1	INSULIN, ISOLATION AND PURIFICATION	I.E.6.3	HYPOGLYCEMIA, COMPLICATIONS
I.C.1.2	INSULIN, ANALYSIS	I.E.6.4	HYPOGLYCEMIA, DIAGNOSIS
I.C.1.3	INSULIN, CHEMICAL SYNTHESIS	I.E.6.5	HYPOGLYCEMIA, DRUG THERAPY
I.C.1.4	INSULIN, BIOSYNTHESIS	I.E.6.6	HYPOGLYCEMIA, ETIOLOGY
I.C.1.5	INSULIN, METABOLISM	I.E.6.7	HYPOGLYCEMIA, METABOLISM
I.C.1.6	INSULIN, BLOOD	I.E.6.8	HYPOGLYCEMIA, PHYSIOPATHOLOGY
I.C.1.7	INSULIN, URINE	I.E.6.9	HYPOGLYCEMIA, THERAPY
I.C.2	INSULIN, PHYSIOLOGY RELATED	I.F	DIABETES
I.C.2.1	INSULIN, PHYSIOLOGY	I.F.1	ALLOXAN DIABETES (SEE SEC. I.F.10.2)
I.C.2.2	INSULIN, SECRETION	I.F.2	DIABETES MELLITUS
I.C.3	INSULIN, PHARMACOLOGY RELATED	I.F.2.1	DIABETES MELLITUS, JUVENILE
I.C.3.1	INSULIN, PHARMACODYNAMICS	I.F.3	DIABETES, BIOCHEMISTRY RELATED
I.C.3.2	INSULIN, ANTAGONISTS AND INHIBITORS	I.F.3.1	DIABETES, METABOLISM
I.C.3.3	INSULIN, ADVERSE EFFECTS	I.F.3.2	DIABETES, ENZYMOLOGY
I.C.4	HYPERINSULINISM	I.F.3.3	DIABETES, BLOOD
I.C.4.1	INSULIN COMA	I.F.3.4	DIABETES, URINE
I.C.5	INSULIN ANTIBODIES	I.F.4	DIABETES, PHYSIOPATHOLOGY
I.C.6	INSULIN RESISTANCE	I.F.5	DIABETES, IMMUNOLOGY
I.C.7	INSULIN, THERAPY RELATED	I.F.6	DIABETES COMPLICATIONS AND PATHOLOGY
I.C.7.1	INSULIN, DIAGNOSTIC USE	I.F.6.1	DIABETIC KETOACIDOSIS
I.C.7.2	INSULIN ADMINISTRATION AND DOSAGE (SEE I.F.9.3.1)	I.F.6.1.1	ACIDOSIS, DIABETIC
I.C.7.3	INSULIN, THERAPEUTIC USE (SEE I.F.9.3.2)	I.F.6.1.2	DIABETIC COMA
I.C.8	INSULIN, HISTORY	I.F.6.2	DIABETIC ANGIOPATHIES
I.D	GLUCAGON	I.F.6.3	DIABETIC NEPHROPATHIES
I.D.1	GLUCAGON, BIOCHEMISTRY RELATED	I.F.6.4	DIABETIC NEUROPATHIES
I.D.1.1	GLUCAGON, ANALYSIS	I.F.6.5	DIABETIC RETINOPATHY
I.D.1.2	GLUCAGON, METABOLISM	I.F.6.6	OTHER COMPLICATIONS OF DIABETES
I.D.1.3	GLUCAGON, BLOOD	I.F.6.7	DIABETES PATHOLOGY
I.D.2	GLUCAGON, PHYSIOLOGY RELATED	I.F.6.8	PREGNANCY IN DIABETES
I.D.2.1	GLUCAGON, PHYSIOLOGY	I.F.7	DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS
I.D.2.2	GLUCAGON, SECRETION	I.F.7.1	DIABETES, OCCURRENCE
I.D.3	GLUCAGON, PHARMACOLOGY RELATED	I.F.7.2	DIABETES, ETIOLOGY
I.D.3.1	GLUCAGON, ADMINISTRATION AND DOSAGE	I.F.7.3	DIABETES, CONGENITAL
I.D.3.2	GLUCAGON, PHARMACODYNAMICS	I.F.7.4	DIABETES, FAMILIAL AND GENETIC
I.D.3.3	GLUCAGON, TOXICITY	I.F.7.5	PREDIABETIC STATE
I.D.4	GLUCAGON, THERAPY RELATED	I.F.8	DIABETES, DIAGNOSIS RELATED
I.D.4.1	GLUCAGON, DIAGNOSTIC USE	I.F.8.1	GLUCOSE TOLERANCE TEST (SEE SEC. I.E.2)
I.D.4.2	GLUCAGON, THERAPEUTIC USE	I.F.8.2	DIABETES, DIAGNOSIS
I.E	BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS	I.F.9	DIABETES, THERAPY RELATED
I.E.1	BLOOD SUGAR	I.F.9.1	DIABETES, PREVENTION AND CONTROL
I.E.1.1	BLOOD SUGAR, ANALYSIS	I.F.9.2	DIABETES, NUTRITION AND DIET THERAPY
I.E.1.2	BLOOD SUGAR, BIOSYNTHESIS	I.F.9.2.1	OBESITY IN DIABETES
I.E.1.3	BLOOD SUGAR, METABOLISM	I.F.9.2.2	GLUCOSE, THERAPEUTIC USE
I.E.1.4	BLOOD SUGAR, PHARMACODYNAMICS	I.F.9.2.3	DIET
I.E.2	GLUCOSE TOLERANCE TEST	I.F.9.2.4	DIABETIC DIET
I.E.3	HYPERGLYCEMIA	I.F.9.2.5	DIETARY CARBOHYDRATES
I.E.3.1	HYPERGLYCEMIA, BLOOD	I.F.9.2.6	DIETARY FATS
I.E.3.2	HYPERGLYCEMIA, CHEMICALLY INDUCED	I.F.9.2.7	CYCLAMATES
I.E.3.3	HYPERGLYCEMIA, COMPLICATIONS	I.F.9.2.8	SACCHARIN
I.E.3.4	HYPERGLYCEMIA, DIAGNOSIS	I.F.9.3	DIABETES, INSULIN AND THERAPY

Arrangement of the Hierarchical Index

1.F.9.3.1	INSULIN, ADMINISTRATION AND DOSAGE	2.G.2.6	JUVENILE HORMONES
1.F.9.3.2	INSULIN, THERAPEUTIC USE	2.G.3	CHROMAFFIN SYSTEM
1.F.9.4	DIABETES, ANTIDIABETICS AND THERAPY	2.G.4	PINEAL BODY
1.F.9.4.1	ANTIDIABETICS	2.G.5	PITUITARY-ADRENAL SYSTEM
1.F.9.4.2	TOLBUTAMIDE	2.G.6	SECRETORY RATE
1.F.9.4.3	OTHER SULFONYL-UREA DERIVATIVES		
1.F.9.4.4	PHENFORMIN		
1.F.9.4.5	OTHER BIGUANIDES		
1.F.9.5	DIABETES DRUG THERAPY		
1.F.9.6	DIABETES THERAPY		
1.F.9.7	DIABETES, RADIOGRAPHY		
1.F.9.8	DIABETES, SURGERY		
1.F.9.9	DIABETES, MORTALITY		
1.F.10	DIABETES, EXPERIMENTAL		
1.F.10.1	DIABETES, CHEMICALLY INDUCED		
1.F.10.2	ALLOXAN DIABETES		
1.F.10.2.1	ALLOXAN DIABETES, BLOOD		
1.F.10.2.2	ALLOXAN DIABETES, DRUG THERAPY		
1.F.10.2.3	ALLOXAN DIABETES, ENZYMOLOGY		
1.F.10.2.4	ALLOXAN DIABETES, METABOLISM		
1.F.10.2.5	ALLOXAN DIABETES, PATHOLOGY		
1.F.10.2.6	ALLOXAN DIABETES, PHYSIOPATHOLOGY		
1.F.11	DIABETES, VETERINARY		
1.F.12	DIABETES, HISTORY		
2	SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS		
2.A	ENDOCRINE PANCREAS		
2.A.1	ISLETS (SEE SEC. 1.A)		
2.A.2	INSULIN (SEE SEC. 1.C)		
2.A.3	GLUCAGON (SEE SEC. 1.D)		
2.B	ADRENAL GLANDS		
2.B.1	ADRENAL CORTEX		
2.B.2	ADRENAL CORTEX HORMONES		
2.B.2.1	GLUCOCORTICOIDS		
2.B.2.1.1	CORTISONE		
2.B.2.1.2	HYDROCORTISONE		
2.B.2.1.3	OTHER GLUCOCORTICOIDS		
2.B.2.2	MINERALOCORTICOIDS		
2.B.3	ADRENAL MEDULLA		
2.B.3.1	EPINEPHRINE		
2.B.3.2	NOREPINEPHRINE		
2.B.4	ADRENALECTOMY		
2.B.5	ADRENAL DISORDERS		
2.C	THYROID GLAND		
2.C.1	THYROID HORMONES		
2.C.2	THYROID ANTAGONISTS		
2.C.3	THYROID DISORDERS		
2.D	PARATHYROID GLANDS		
2.E	PITUITARY GLAND		
2.E.1	PITUITARY HORMONES, ANTERIOR		
2.E.1.1	CORTICOTROPIN		
2.E.1.2	SOMATOTROPIN		
2.E.1.3	THYROTROPIN		
2.E.1.4	GONADOTROPINS, PITUITARY		
2.E.2	PITUITARY HORMONES, POSTERIOR		
2.E.3	PITUITARY HORMONES, INTERMEDIATE		
2.E.4	PITUITARY HORMONE RELEASING FACTORS		
2.E.5	HYPOPHYSPECTOMY		
2.E.6	PITUITARY DISORDERS		
2.F	GONADS		
2.F.1	OVARY		
2.F.2	TESTIS		
2.F.3	SEX HORMONES		
2.F.3.1	ANDROGENS		
2.F.3.2	ESTROGENS		
2.F.3.3	CORPUS LUTEUM AND PROGESTATIONAL HORMONES		
2.F.3.3.1	CORPUS LUTEUM HORMONES		
2.F.3.3.2	PROGESTATIONAL HORMONES		
2.F.3.4	CONTRACEPTIVES, ORAL		
2.F.4	GONADAL DISORDERS		
2.G	OTHER ENDOCRINES AND RELATED TERMS		
2.G.1	ENDOCRINE GLANDS		
2.G.2	HORMONES		
2.G.2.1	GASTROINTESTINAL HORMONES		
2.G.2.2	PROSTAGLANDINS		
2.G.2.3	HORMONES, ECTOPIC		
2.G.2.4	PLACENTAL HORMONES		
2.G.2.5	RELAXIN		

MEDLARS Terms Included in Hierarchical Index

ACETOHEXAMIDE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	PATHOLOGY	1.F.6.7 DIABETES PATHOLOGY
ACIDOSIS	1.F.6.1.1 ACIDOSIS, DIABETIC	PHYSIOPATHOLOGY	1.F.4 DIABETES, PHYSIOPATHOLOGY
ACIDOSIS, DIABETIC	1.F.6.1.1 ACIDOSIS, DIABETIC	PREVENTION & CONTROL	1.F.9.1 DIABETES, PREVENTION AND CONTROL
ACROMEGALY	2.E.6 PITUITARY DISORDERS	RADIOGRAPHY	1.F.9.7 DIABETES, RADIOGRAPHY
ADDISON'S DISEASE	2.B.5 ADRENAL DISORDERS	SURGERY	1.F.9.8 DIABETES, SURGERY
ADRENAL CORTX HORMONES	2.B.2 ADRENAL CORTX HORMONES	THERAPY	1.F.9.6 DIABETES THERAPY
ADRENAL GLAND HYPERFUNCTION	2.B.5 ADRENAL DISORDERS	URINE	1.F.3.4 DIABETES, URINE
ADRENAL GLAND HYPOFUNCTION	2.B.5 ADRENAL DISORDERS	VETERINARY	1.F.11 DIABETES, VETERINARY
ADRENAL GLANDS	2.B ADRENAL GLANDS	DIABETES MELLITUS, JUVENILE	1.F.2.1 DIABETES MELLITUS, JUVENILE
ADRENAL MEDULLA	2.B.3 ADRENAL MEDULLA	BLOOD	1.F.3.3 DIABETES, BLOOD
ADRENALECTOMY	2.B.4 ADRENALECTOMY	CHEMICALLY INDUCED	1.F.10.1 DIABETES, CHEMICALLY INDUCED
ADRENOGENITAL SYNDROME	2.F.4 GONADAL DISORDERS	COMPLICATIONS	1.F.6.6 OTHER COMPLICATIONS OF DIABETES
	2.B.5 ADRENAL DISORDERS	CONGENITAL	1.F.7.3 DIABETES, CONGENITAL
	2.B.2.2 MINERALOCORTICOIDS	DIAGNOSIS	1.F.8.2 DIABETES, DIAGNOSIS
	1.F.10.2 ALLOXAN DIABETES	DRUG THERAPY	1.F.9.5 DIABETES DRUG THERAPY
ALDOSTERONE	1.F.10.2.1 ALLOXAN DIABETES, BLOOD	ENZYMOLGY	1.F.3.2 DIABETES, ENZYMOLOGY
ALLOXAN DIABETES	1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY	ETIOLOGY	1.F.7.2 DIABETES, ETIOLOGY
BLOOD	1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY	FAMILIAL & GENETIC	1.F.7.4 DIABETES, FAMILIAL AND GENETIC
DRUG THERAPY	1.F.10.2.4 ALLOXAN DIABETES, METABOLISM	HISTORY	1.F.12 DIABETES, HISTORY
ENZYMOLGY	1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY	IMMUNOLOGY	1.F.5 DIABETES, IMMUNOLOGY
METABOLISM	1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY	METABOLISM	1.F.3.1 DIABETES, METABOLISM
PATHOLOGY	1.F.6.8 PREGNANCY IN DIABETES	MORTALITY	1.F.9.9 DIABETES, MORTALITY
PHYSIOPATHOLOGY	2.F.3.1 ANDROGENS	OCCURRENCE	1.F.7.1 DIABETES, OCCURRENCE
	2.F.3.1 ANDROGENS	PATHOLOGY	1.F.6.7 DIABETES PATHOLOGY
AMNIOCENTESIS	2.F.3.1 ANDROGENS	PHYSIOPATHOLOGY	1.F.4 DIABETES, PHYSIOPATHOLOGY
ANABOLIC STEROIDS	2.B.2.1.3 OTHER GLUCOCORTICOIDS	PREVENTION & CONTROL	1.F.9.1 DIABETES, PREVENTION AND CONTROL
ANDROGENS	1.F.9.4.1 ANTIDIABETICS	RADIOGRAPHY	1.F.9.7 DIABETES, RADIOGRAPHY
ANDROSTERONE	1.F.6.8 PREGNANCY IN DIABETES	SURGERY	1.F.9.8 DIABETES, SURGERY
	1.F.6.2 DIABETIC ANGIOPATHIES	THERAPY	1.F.9.6 DIABETES THERAPY
ANTIDIABETICS	2.B.2.1.3 OTHER GLUCOCORTICOIDS	URINE	1.F.3.4 DIABETES, URINE
APGAR SCORE	1.F.9.4.5 OTHER BIGUANIDES	VETERINARY	1.F.11 DIABETES, VETERINARY
ARTERIOSCLEROSIS	1.E.1 BLOOD SUGAR	DIABETIC ANGIOPATHIES	1.F.6.2 DIABETIC ANGIOPATHIES
BETAMETHASONE	1.E.1.1 BLOOD SUGAR, ANALYSIS	DIABETIC COMA	1.F.6.1.2 DIABETIC COMA
BIGUANIDES	1.E.1.2 BLOOD SUGAR, BIOSYNTHESIS	DIABETIC DIET	1.F.9.2.4 DIABETIC DIET
BLOOD SUGAR	1.E.1.3 BLOOD SUGAR, METABOLISM	DIABETIC NEPHROPATHIES	1.F.6.3 DIABETIC NEPHROPATHIES
ANALYSIS	1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS	DIABETIC NEUROPATHIES	1.F.6.4 DIABETIC NEUROPATHIES
BIOSYNTHESIS	2.C.1 THYROID HORMONES	DIABETIC RETINOPATHY	1.F.6.5 DIABETIC RETINOPATHY
METABOLISM	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	DIET	1.F.9.2.3 DIET
PHARMACODYNAMICS	2.F.3.3.2 PROGESTATIONAL HORMONES	DIET, ATHEROGENIC	1.F.9.2.3 DIET
CALCITONIN	2.F.3.2 ESTROGENS	DIET, REDUCING	1.F.9.2.3 DIET
CARBUTAMIDE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	DIETARY CARBOHYDRATES	1.F.9.2.5 DIETARY CARBOHYDRATES
CHLORMADINONE	2.G.2.1 GASTROINTESTINAL HORMONES	DIETARY FATS	1.F.9.2.6 DIETARY FATS
CHLOROTRIANSENE	1.F.9.2.6 DIETARY FATS	DIETHYLSTILBESTROL	2.F.3.2 ESTROGENS
CHOLECYSTOKININ	2.G.3 CHROMAFFIN SYSTEM	DIODOTYROSINE	2.C.1 THYROID HORMONES
CHOLESTEROL, DIETARY	2.F.3.4 CONTRACEPTIVES, ORAL	DROMOSTANOLONE	2.F.3.1 ANDROGENS
CHROMAFFIN SYSTEM	1.F.6.2 DIABETIC ANGIOPATHIES	DWARFISM, PITUITARY	2.E.6 PITUITARY DISORDERS
CONTRACEPTIVES, ORAL	2.F.1 OVARY	DYDROGESTERONE	2.F.3.2 PROGESTATIONAL HORMONES
CORONARY DISEASE	2.F.3.3.1 CORPUS LUTEUM HORMONES	ECDYSONE	2.G.2 HORMONES
CORPUS LUTEUM	2.B.2.1.3 OTHER GLUCOCORTICOIDS	ENDOCRINE DISEASES	2.G.1 ENDOCRINE GLANDS
CORPUS LUTEUM HORMONES	2.E.1.1 CORTICOTROPIN	ENDOCRINE GLANDS	2.G.1 ENDOCRINE GLANDS
CORTICOSTERONE	2.E.4 PITUITARY HORMONE RELEASING FACTORS	ENDOCRINE SYSTEM (NON MESH)	2 SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS
CORTICOTROPIN	2.B.2.1.1 CORTISONE	EPINEPHRINE	2.B.3.1 EPINEPHRINE
CORTICOTROPIN RELEASING HORMONE	2.C.3 THYROID DISORDERS	ESTRADIOL	2.F.3.2 ESTROGENS
CORTISONE	2.B.5 ADRENAL DISORDERS	ESTRIOL	2.F.3.2 ESTROGENS
CRETINISM	1.F.9.2.7 CYCLAMATES	ESTROGENIC SUBSTANCES, CONJUGATED	2.F.3.2 ESTROGENS
CUSHINGS SYNDROME	1.C.2.2 INSULIN, SECRETION	ESTROGENS	2.F.3.2 ESTROGENS
CYCLAMATES	1.C.2.2 INSULIN, SECRETION	ESTRONE	2.F.3.2 ESTROGENS
CYTOCHALASIN B	2.B.2.1.3 OTHER GLUCOCORTICOIDS	ETHINYL ESTRADIOL	2.F.3.2 ESTROGENS
CYTOCHALASINS	2.F.3.1 ANDROGENS	ETHISTERONE	2.F.3.2 ESTROGENS
DEHYDROEPIANDROSTERONE	2.B.2.2 MINERALOCORTICOIDS		2.F.3.3.2 PROGESTATIONAL HORMONES
	2.B.2.1.3 OTHER GLUCOCORTICOIDS		2.F.3.2 ESTROGENS
DESOXYCORTICOSTERONE	2.E.6 PITUITARY DISORDERS		2.F.3.1 ANDROGENS
DEXAMETHASONE	1.F.2 DIABETES MELLITUS		2.F.4 GONADAL DISORDERS
DIABETES INSIPIDUS	1.F.3.3 DIABETES, BLOOD		2.B.2.1.3 OTHER GLUCOCORTICOIDS
DIABETES MELLITUS	1.F.10.1 DIABETES, CHEMICALLY INDUCED		2.B.2.2 MINERALOCORTICOIDS
BLOOD	1.F.6.6 OTHER COMPLICATIONS OF DIABETES		2.B.2.1.3 OTHER GLUCOCORTICOIDS
CHEMICALLY INDUCED	1.F.7.3 DIABETES, CONGENITAL		2.B.2.1.3 OTHER GLUCOCORTICOIDS
COMPLICATIONS	1.F.8.2 DIABETES, DIAGNOSIS		2.F.3.1 ANDROGENS
CONGENITAL	1.F.9.5 DIABETES DRUG THERAPY		2.B.2.1.3 OTHER GLUCOCORTICOIDS
DIAGNOSIS	1.F.3.2 DIABETES, ENZYMOLOGY		2.E.6 PITUITARY DISORDERS
DRUG THERAPY	1.F.7.2 DIABETES, ETIOLOGY		2.E.1.4 GONADOTROPINS, PITUITARY
ENZYMOLGY	1.F.7.4 DIABETES, FAMILIAL AND GENETIC		2.G.2.1 GASTROINTESTINAL HORMONES
ETIOLOGY	1.F.12 DIABETES, HISTORY		2.G.2.1 GASTROINTESTINAL HORMONES
FAMILIAL & GENETIC	1.F.5 DIABETES, IMMUNOLOGY		
HISTORY	1.F.3.1 DIABETES, METABOLISM		
IMMUNOLOGY	1.F.9.9 DIABETES, MORTALITY		
METABOLISM	1.F.7.1 DIABETES, OCCURRENCE		
MORTALITY			
OCCURRENCE			

MEDLARS Terms Included in Hierarchical Index

GIGANTISM
GLIBENCLAMIDE
GLUCAGON
ADMINISTRATION & DOSAGE

ANALYSIS
BLOOD
DIAGNOSTIC USE
METABOLISM
PHARMACODYNAMICS
PHYSIOLOGY
SECRETION
THERAPEUTIC USE
TOXICITY
GLUCOCORTICOID
GLUCOSE
THERAPEUTIC USE
GLUCOSE TOLERANCE TEST
GLYCOSURIA
CHEMICALLY INDUCED
COMPLICATIONS
DIAGNOSIS
DRUG THERAPY
ENZYMOLGY
ETIOLOGY
METABOLISM
OCCURRENCE
GLYCOSURIA, RENAL
GOITER, EXOPHTHALMIC
GONADOTROPINS, CHORIONIC
GONADOTROPINS, EQUINE
GONADOTROPINS, PITUITARY
GONADS
GRAAFIAN FOLLICLE
GROWTH DISORDERS
HERMAPHRODITISM
HEXESTROL
HORMONES
HORMONES, ECTOPIC
HYDROCORTISONE
11-HYDROXYCORTICOSTEROIDS
17-HYDROXYCORTICOSTEROIDS
HYDROXYCORTICOSTEROIDS
HYDROXYMETHYLTESTOSTERONE
HYDROXYPROGESTERONE

HYPERALDOSTERONISM

HYPERGLYCEMIA
BLOOD
CHEMICALLY INDUCED
COMPLICATIONS
DIAGNOSIS
DRUG THERAPY
ETIOLOGY
METABOLISM
PHYSIOPATHOLOGY
URINE

HYPERINSULINISM

HYPERPITUITARISM

HYPERTHYROIDISM

HYPOGLYCEMIA

BLOOD
CHEMICALLY INDUCED
COMPLICATIONS
DIAGNOSIS
DRUG THERAPY
ETIOLOGY
METABOLISM
PHYSIOPATHOLOGY
THERAPY

HYPOGLYCEMIC AGENTS (NON MESH)

HYPOGONADISM

HYPOPHYSECTOMY

HYPOPITUITARISM

HYPOTHYROIDISM

INSULIN

ADMINISTRATION & DOSAGE
ADVERSE EFFECTS
ANALYSIS
ANTAGONISTS & INHIBITORS
BIOSYNTHESIS
BLOOD
CHEM SYNTHESIS
DIAGNOSTIC USE
HISTORY
ISOLATION & PURIFICATION
METABOLISM
PHARMACODYNAMICS

2.E.6 PITUITARY DISORDERS
1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
1.D. GLUCAGON
1.D.3.1 GLUCAGON, ADMINISTRATION AND DOSAGE
1.D.1.1 GLUCAGON, ANALYSIS
1.D.1.3 GLUCAGON, BLOOD
1.D.4.1 GLUCAGON, DIAGNOSTIC USE
1.D.1.2 GLUCAGON, METABOLISM
1.D.3.2 GLUCAGON, PHARMACODYNAMICS
1.D.2.1 GLUCAGON, PHYSIOLOGY
1.D.2.2 GLUCAGON, SECRETION
1.D.4.2 GLUCAGON, THERAPEUTIC USE
1.D.3.3 GLUCAGON, TOXICITY
2.B.2.1 GLUCOCORTICIDS

1.F.9.2.2 GLUCOSE, THERAPEUTIC USE
1.E.2 GLUCOSE TOLERANCE TEST
1.E.4 GLYCOSURIA
1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED
1.E.4.2 GLYCOSURIA, COMPLICATIONS
1.E.4.3 GLYCOSURIA, DIAGNOSIS
1.E.4.4 GLYCOSURIA, DRUG THERAPY
1.E.4.5 GLYCOSURIA, ENZYMOLOGY
1.E.4.6 GLYCOSURIA, ETIOLOGY
1.E.4.7 GLYCOSURIA, METABOLISM
1.E.4.8 GLYCOSURIA, OCCURRENCE
1.E.5 GLYCOSURIA, RENAL
2.C.3 THYROID DISORDERS
2.G.2.4 PLACENTAL HORMONES
2.G.2.4 PLACENTAL HORMONES
2.E.1.4 GONADOTROPINS, PITUITARY
2.F. GONADS
2.F.1 OVARY

2.E.6 PITUITARY DISORDERS
2.F.4 GONADAL DISORDERS
2.F.3.2 ESTROGENS
2.G.2 HORMONES
2.G.2.3 HORMONES, ECTOPIC
2.B.2.1.2 HYDROCORTISONE
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.F.3.1 ANDROGENS
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.F.3.3.2 PROGESTATIONAL HORMONES
2.B.5 ADRENAL DISORDERS
1.E.3 HYPERGLYCEMIA
1.E.3.1 HYPERGLYCEMIA, BLOOD
1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED
1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS
1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS
1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY
1.E.3.6 HYPERGLYCEMIA, ETIOLOGY
1.E.3.7 HYPERGLYCEMIA, METABOLISM
1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY
1.E.3.9 HYPERGLYCEMIA, URINE
1.C.4 HYPERINSULINISM
2.E.6 PITUITARY DISORDERS
2.C.3 THYROID DISORDERS
1.E.6 HYPOGLYCEMIA
1.E.6.1 HYPOGLYCEMIA, BLOOD
1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED
1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS
1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS
1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY
1.E.6.6 HYPOGLYCEMIA, ETIOLOGY
1.E.6.7 HYPOGLYCEMIA, METABOLISM
1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY
1.E.6.9 HYPOGLYCEMIA, THERAPY
1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED
2.F.4 GONADAL DISORDERS
2.E.5 HYPOPHYSECTOMY
2.E.6 PITUITARY DISORDERS
2.C.3 THYROID DISORDERS

1.C. INSULIN
1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE
1.C.3.3 INSULIN, ADVERSE EFFECTS
1.C.1.2 INSULIN, ANALYSIS
1.C.3.2 INSULIN, ANTAGONISTS AND INHIBITORS
1.C.1.4 INSULIN, BIOSYNTHESIS
1.C.1.6 INSULIN, BLOOD
1.C.1.3 INSULIN, CHEMICAL SYNTHESIS
1.C.7.1 INSULIN, DIAGNOSTIC USE
1.C.8 INSULIN, HISTORY
1.C.1.1 INSULIN, ISOLATION AND PURIFICATION
1.C.1.5 INSULIN, METABOLISM
1.C.3.1 INSULIN, PHARMACODYNAMICS

PHYSIOLOGY
SECRETION
THERAPEUTIC USE
URINE
INSULIN ANTIBODIES
INSULIN COMA
INSULIN, GLOBIN ZINC
INSULIN, ISOPHANE
INSULIN, LENTE
INSULIN, PROTAMINE ZINC
INSULIN RESISTANCE
INVERTEBRATE HORMONES
ISLANDS OF LANGERHANS
ANALYSIS

ANATOMY & HISTOLOGY

BLOOD SUPPLY

CYTOLOGY

DRUG EFFECTS

EMBRYOLOGY

ENZYMOLOGY

GROWTH & DEVELOPMENT

INNERVATION

METABOLISM

PATHOLOGY

PHYSIOLOGY

PHYSIOPATHOLOGY

SECRETION

ISLET CELL TUMOR

JUVENILE HORMONES
17-KETOSTEROIDS
KIMMELSTIEL-WILSON SYNDROME
KLINEFELTERS SYNDROME
LEYDIG CELL TUMOR
LEYDIG CELLS

LH

LH-FSH R-LEASING HORMONE

LYNTESTRENOL

MEDROXYPROGESTERONE

MELATONIN

MESTRANOL

METAHEXAMIDE

METFORMIN

METHANDROSTENOLONE

METHYLPREDNISOLONE

METHYLTESTOSTERONE

METHYLTHIOURACIL

MINERALOCORTICIDS

MSH

MYXEDEMA

NANDROLONE

NOREPINEPHRINE

NORETHANDROLONE

NORETHINDRONE

NORETHYNOREL

NORMETHANDROLONE

OBESITY IN DIABETES

OVARIAN CYSTS

OVARIAN DISEASES

OVARIAN NEOPLASMS

OVARY

OXANDROLONE

OXYMETHOLONE

OXYTOCICS

OXYTOCIN

PANCREAS

ANALYSIS

BLOOD SUPPLY

CYTOLOGY

DRUG EFFECTS

EMBRYOLOGY

ENZYMOLOGY

INNERVATION

METABOLISM

1.C.2.1 INSULIN, PHYSIOLOGY
1.C.2.2 INSULIN, SECRETION
1.F.9.3.2 INSULIN, THERAPEUTIC USE
1.C.1.7 INSULIN, URINE
1.C.5 INSULIN ANTIBODIES
1.C.4.1 INSULIN COMA
1.F.9.3.2 INSULIN, THERAPEUTIC USE
1.F.9.3.2 INSULIN, THERAPEUTIC USE
1.F.9.3.2 INSULIN, THERAPEUTIC USE
1.F.9.3.2 INSULIN, THERAPEUTIC USE
1.C.6 INSULIN RESISTANCE
2.G.2.3 HORMONES, ECTOPIC
1.A ISLANDS OF LANGERHANS
1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
1.A.4 ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY RELATED
1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED
1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY RELATED
1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED
1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED
1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED
1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY RELATED
2.G.2.6 JUVENILE HORMONES
2.B.2.1.3 OTHER GLUCOCORTICIDS
1.F.6.3 DIABETIC NEPHROPATHIES
2.F.4 GONADAL DISORDERS
2.F.4 GONADAL DISORDERS
2.F.2 TESTIS
2.E.1.4 GONADOTROPINS, PITUITARY
2.E.1.4 GONADOTROPINS, PITUITARY
2.F.3.3.2 PROGESTATIONAL HORMONES
2.F.3.3.2 PROGESTATIONAL HORMONES
2.E.3 PITUITARY HORMONES, INTERMEDIATE
2.F.3.2 ESTROGENS
1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
1.F.9.4.5 OTHER BIGUANIDES
2.F.3.1 ANDROGENS
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.F.3.1 ANDROGENS
2.C.2 THYROID ANTAGONISTS
2.B.2.2 MINERALOCORTICIDS
2.E.3 PITUITARY HORMONES, INTERMEDIATE
2.C.3 THYROID DISORDERS
2.F.3.1 ANDROGENS
2.B.3.2 NOREPINEPHRINE
2.F.3.1 ANDROGENS
2.F.3.3.2 PROGESTATIONAL HORMONES
2.F.3.3.2 PROGESTATIONAL HORMONES
2.F.3.1 ANDROGENS
1.F.9.2.1 OBESITY IN DIABETES
2.F.1 OVARY
2.F.4 GONADAL DISORDERS
2.F.4 GONADAL DISORDERS
2.F.1 OVARY
2.F.3.1 ANDROGENS
2.F.3.1 ANDROGENS
2.E.2 PITUITARY HORMONES, POSTERIOR
2.E.2 PITUITARY HORMONES, POSTERIOR
1.B PANCREAS
1.B.2 PANCREAS, BIOCHEMISTRY RELATED
1.B.1 PANCREAS, ANATOMY RELATED
1.B.1 PANCREAS, ANATOMY RELATED
1.B.4 PANCREAS, PHARMACOLOGY RELATED
1.B.1 PANCREAS, ANATOMY RELATED
1.B.2 PANCREAS, BIOCHEMISTRY RELATED
1.B.1 PANCREAS, ANATOMY RELATED
1.B.2 PANCREAS, BIOCHEMISTRY RELATED

MEDLARS Terms Included in Hierarchical Index

PATHOLOGY	1.B.5 PANCREAS, PATHOLOGY RELATED
PHYSIOLOGY	1.B.3 PANCREAS, PHYSIOLOGY RELATED
PHYSIOPATHOLOGY	1.B.3 PANCREAS, PHYSIOLOGY RELATED
SECRETION	1.B.3 PANCREAS, PHYSIOLOGY RELATED
TRANSPLANTATION	1.B.6.1 PANCREAS, TRANSPLANTATION
PANCREATECTOMY	1.B.6.2 PANCREATECTOMY
PANCREATIC DISEASES	1.B.5 PANCREAS, PATHOLOGY RELATED
PANCREATIC EXTRACTS	1.B.4 PANCREAS, PHARMACOLOGY RELATED
PANCREATIC HORMONES	1.B.2 PANCREAS, BIOCHEMISTRY RELATED
PANCREOZYMIN	2.G.2.1 GASTROINTESTINAL HORMONES
PARAMETHASONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PARATHYROID DISEASES	2.D PARATHYROID GLANDS
PARATHYROID GLANDS	2.D PARATHYROID GLANDS
PARATHYROID HORMONE	2.D PARATHYROID GLANDS
PENFORMIN	1.F.9.4.4 PHENFORMIN
PINEAL BODY	2.G.4 PINEAL BODY
PITUITARY-ADRENAL SYSTEM	2.G.5 PITUITARY-ADRENAL SYSTEM
PITUITARY GLAND	2.E PITUITARY GLAND
PITUITARY HORMONE RELEASING HORMONES	2.E.4 PITUITARY HORMONE RELEASING FACTORS
PITUITARY HORMONES, ANTERIOR	2.E.1 PITUITARY HORMONES, ANTERIOR
PITUITARY HORMONES, POSTERIOR	2.E.2 PITUITARY HORMONES, POSTERIOR
PLACENTA DISORDERS	1.F.6.8 PREGNANCY IN DIABETES
PLACENTAL HORMONES	2.G.2.4 PLACENTAL HORMONES
PREDIABETIC STATE	1.F.7.5 PREDIABETIC STATE
PREDNISOLONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PREDNISONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PREGNANCY	1.F.6.8 PREGNANCY IN DIABETES
PREGNANCY IN DIABETES	1.F.6.8 PREGNANCY IN DIABETES
PREGNANEDIOL	2.F.3.3.2 PROGESTATIONAL HORMONES
PREGNANETRIOL	2.B.2.1.3 OTHER GLUCOCORTICOIDS
	2.F.3.3.2 PROGESTATIONAL HORMONES
PREGNENOLONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
	2.F.3.3.2 PROGESTATIONAL HORMONES
PROGESTATIONAL HORMONES	2.F.3.3.2 PROGESTATIONAL HORMONES
PROGESTERONE	2.F.3.3.2 PROGESTATIONAL HORMONES
PROINSULIN	1.C.1.4 INSULIN, BIOSYNTHESIS
PROLACTIN	2.E.1.4 GONADOTROPINS, PITUITARY
PROPYLTHIOURACIL	2.C.2 THYROID ANTAGONISTS
PROSTAGLANDINS	2.G.2.2 PROSTAGLANDINS
PUBERTY, PRECOCIOUS	2.F.4 GONADAL DISORDERS
RECEPTORS, HORMONE	2.G.2 HORMONES
RELAXIN	2.G.2.5 RELAXIN
SACCHARIN	1.F.9.2.8 SACCHARIN
SECRETIN	2.G.2.1 GASTROINTESTINAL HORMONES
SECRETORY RATE	2.G.6 SECRETORY RATE
SERTOLI CELL TUMOR	2.F.4 GONADAL DISORDERS
SERTOLI CELLS	2.F.2 TESTIS
SEX DIFFERENTIATION DISORDERS	2.F.4 GONADAL DISORDERS
SEX HORMONES	2.F.3 SEX HORMONES
SHEEHAN'S SYNDROME	2.E.6 PITUITARY DISORDERS
SKIN ULCER	1.F.6.2 DIABETIC ANGIOPATHIES
SOMATOTROPIN	2.E.1.2 SOMATOTROPIN
SOMATOTROPIN RELEASING HORMONE	2.E.1.2 SOMATOTROPIN
STANOLONE	2.F.3.1 ANDROGENS
STANOZOLOL	2.F.3.1 ANDROGENS
TESTICULAR DISEASES	2.F.4 GONADAL DISORDERS
TESTICULAR FEMINIZATION	2.F.4 GONADAL DISORDERS
TESTICULAR NEOPLASMS	2.F.4 GONADAL DISORDERS
TESTIS	2.F.2 TESTIS
TESTOSTERONE	2.F.3.1 ANDROGENS
THIOCYANATES	2.C.2 THYROID ANTAGONISTS
THIOURACIL	2.C.2 THYROID ANTAGONISTS
THIOUREA	2.C.2 THYROID ANTAGONISTS
THYROID ANTAGONISTS	2.C.2 THYROID ANTAGONISTS
THYROID CRISIS	2.C.3 THYROID DISORDERS
THYROID GLAND	2.C THYROID GLAND
THYROID HORMONES	2.C.1 THYROID HORMONES
THYROIDITIS	2.C.3 THYROID DISORDERS
THYROIDITIS, LYMPHOMATOUS	2.C.3 THYROID DISORDERS
THYRONINE	2.C.1 THYROID HORMONES
THYROTROPIN	2.E.1.3 THYROTROPIN
THYROTROPIN RELEASING HORMONE	2.E.4 PITUITARY HORMONE RELEASING FACTORS
THYROXINE	2.C.1 THYROID HORMONES
TOLAZAMIDE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
TOLBUTAMIDE	1.F.9.4.2 TOLBUTAMIDE
TRIAMCINOLONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
TRIIODOTHYRONINE	2.C.1 THYROID HORMONES
TURNER'S SYNDROME	2.F.4 GONADAL DISORDERS
VASOPRESSIN	2.E.2 PITUITARY HORMONES, POSTERIOR
VIRILISM	2.F.4 GONADAL DISORDERS
WATERHOUSE-FRIDERICHSEN SYNDROME	2.B.5 ADRENAL DISORDERS

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Banyard, V. L., & ...	2022	United States
Banyard, V. L., & ...	2023	United States
Banyard, V. L., & ...	2024	United States
Banyard, V. L., & ...	2025	United States
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SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

1.A ISLANDS OF LANGERHANS

IMMUNOREACTIVITY OF THE ENDOCRINE PANCREAS. EVIDENCE FOR THE PRESENCE OF CHOLECYSTOKININ- PANCREOZYMIN WITHIN THE A-CELL. Grube D, Maier V, Raptis S, Schlegel W *Histochemistry* 56: 13-35, 2 Jun 78 (Eng) DL/78OCT411

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RELATION OF INSULIN RELEASE TO CYCLIC AMP CONTENT IN RAT PANCREATIC ISLETS MAINTAINED IN TISSUE CULTURE. Rabinovitch A, Cuendet GS, Sharp GW, Renold AE, Mintz DH *Diabetes* 27: 766-73, Jul 78 (Eng) DL/78OCT373

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[ELECTRON MICROSCOPIC AND AUTORADIOGRAPHIC STUDY OF THE PANCREAS AT DIFFERENT TIMES OF POST-MORTEM ISCHEMIA] Medvetkii EB, Keisevich LV *Biull Eksp Biol Med* 85: 610-3, May 78 (Rus) DL/78OCT292

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1.B PANCREAS

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[PROLIFERATION OF THE EXOCRINE AND ENDOCRINE PORTIONS OF THE PANCREAS AFTER ITS RESECTION] Krasnov VP *Biull Eksp Biol Med* 85: 464-7, Apr 78 (Rus) DL/78OCT290

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1.D GLUCAGON

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1.D.4 GLUCAGON, THERAPY RELATED

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Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

- LONG-TERM EFFECTS OF OVARECTOMY AND GONADAL HORMONE REPLACEMENT REGIMES ON INSULIN MODULATION OF GLYCOGEN ACCUMULATION IN MICE [PROCEEDINGS]** Ahmed-Sorour H, Bailey CJ, Matty AJ *J Endocrinol* 77: 3p, May 78 (Eng) DL/78OCT450
- ENDOCRINE CONTROL OF ENERGY METABOLISM IN THE COW: COMPARISON OF THE LEVELS OF HORMONES (PROLACTIN, GROWTH HORMONE, INSULIN AND THYROXINE) AND METABOLITES IN THE PLASMA OF HIGH- AND LOW-YIELDING CATTLE AT VARIOUS STAGES OF LACTATION.** Hart IC, Bines JA, Morant SV, Ridley JL *J Endocrinol* 77: 333-45, Jun 78 (Eng) DL/78OCT451
- HYPERGLUCAGONEMIA AND HEPATIC KETONEGENESIS IN BURNED SWINE.** Wachtel TL, Shuck JM, Schade D, Eaton RP, Shuck LW *J Trauma* 18: 248-53, Apr 78 (Eng) DL/78OCT461
- EFFECTS OF HYPOGLYCEMIC AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VII. MORTALITY AND SELECTED NONFATAL EVENTS WITH INSULIN TREATMENT.** Knaterud GL, Klimt CR, Levin ME, Jacobson ME, Goldner MG *JAMA* 240: 37-42, 7 Jul 78 (Eng) DL/78OCT464
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- INSULIN-REACTION TEST FOR DIAGNOSIS OF LOW RENAL THRESHOLD FOR GLUCOSE IN AFRICAN DIABETICS.** Umez-Eronini EM, Ichiei UP, Ekwuato VE *Lancet* 2: 12-3, 1 Jul 78 (Eng) DL/78OCT487
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- ORGANOPHOSPHORUS POISONING AND REMISSION OF DIABETES [LETTER]** Samantray SK *Med J Aust* 1: 443, 22 Apr 78 (Eng) DL/78OCT500
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- 1.E.1.2 BLOOD SUGAR, BIOSYNTHESIS**
- 1.E.1.3 BLOOD SUGAR, METABOLISM**
- INHIBITION OF PLASMA CYCLIC AMP, GLUCOSE AND CORTISOL RESPONSE TO SURGERY BY EPIDURAL ANALGESIA.** Madsen SN, Brandt MR, Engquist A, Badawi I, Khelet H *Br J Surg* 64: 669-71, Sep 77 (Eng) *DL/78OCT16
- EFFECT OF CALCITONIN ON SERUM GLUCOSE CONCENTRATION IN RATS.** Yamaguchi M, Yamamoto T *Chem Pharm Bull (Tokyo)* 25: 2189-94, Sep 77 (Eng) *DL/78OCT26
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- RELATIVE CHROMIUM RESPONSE AS AN INDICATOR OF CHROMIUM STATUS. Liu VJ, Morris JS *Am J Clin Nutr* 31: 972-6, Jun 78 (Eng) DL/78OCT669
- THE EFFECT OF GLUCOSE LOADING ON URINARY EXCRETION OF CHROMIUM IN NORMAL ADULTS, IN INDIVIDUALS FROM DIABETIC FAMILIES AND IN DIABETICS. Gurson CT, Saner G *Am J Clin Nutr* 31: 1158-61, Jul 78 (Eng) DL/78OCT670
- PERSISTENT NEONATAL HYPOGLYCAEMIA DUE TO GLUCAGON DEFICIENCY. Kollee LA, Monnens LA, Cecija V, Wilms RM *Arch Dis Child* 53: 422-4, May 78 (Eng) DL/78OCT695

1.E.3 HYPERGLYCEMIA

PANCREATIC ISLET ISOTRANSPLANTATION. EFFECTS OF AGE AND ORGAN CULTURE OF DONOR ISLETS ON REVERSAL OF DIABETES IN RATS. Selawry H, Harrison J, Patipa M, Mintz DH *Diabetes* 27: 625-31, Jun 78 (Eng) DL/78OCT353

IMPAIRED GRANULOCYTE ADHERENCE. A REVERSIBLE DEFECT IN HOST DEFENSE IN PATIENTS WITH POORLY CONTROLLED DIABETES. Bagdade JD, Stewart M, Walters E *Diabetes* 27: 677-81, Jun 78 (Eng) DL/78OCT361

[IS FUNCTIONAL DEMAND A CONDITION WITHOUT WHICH THE PANCREATIC AUTO TRANSPLANT CAN NOT SURVIVE IN THE DOGS SPLEEN] Mosimann F, Mirkovitch V, Macarone-Palmieri R, Blanc D, Campiche M *Helv Chir Acta* 45: 157-9, May 78 (Fre) DL/78OCT409

SUCROSE MALABSORPTION IN MAN AFTER INGESTION OF ALPHA-GLUCOSIDASE INHIBITOR. Caspary WF *Lancet* 1: 1231-3, 10 Jun 78 (Eng) DL/78OCT479

1.E.3.1 HYPERGLYCEMIA, BLOOD

GLUCOSE DISPOSAL IN LOW-BIRTH-WEIGHT INFANTS DURING STEADY-STATE HYPERGLYCEMIA: EFFECTS OF EXOGENOUS INSULIN ADMINISTRATION. Pollak A, Cowett RM, Schwartz R, Oh W *Pediatrics* 61: 546-9, Apr 78 (Eng) DL/78OCT545

1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED

GLUCOPRIVIC FEEDING BEHAVIOR IN ABSENCE OF OTHER SIGNS OF GLUCOPRIVATION. Ritter RC, Roelke M, Neville M *Am J Physiol* 234: e617-21, Jun 78 (Eng) DL/78OCT681

1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS

1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS

1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY

1.E.3.6 HYPERGLYCEMIA, ETIOLOGY

IMPORTANCE OF PITUITARY HORMONES IN AETIOLOGY OF DIABETIC KETOACIDOSIS. Barnes AJ, Kohner EM, Bloom SR, Johnston DG, Alberti KG, Smythe F *Lancet* 1: 1171-4, 3 Jun 78 (Eng) DL/78OCT475

DIABETES WITHOUT GLUCAGON [LETTER] Dammann HG, Kuhlhall J, Drost H *Lancet* 1: 1205, 3 Jun 78 (Eng) DL/78OCT478

[ADAPTIVE PHYSIOPATHOLOGY OF ADVANCED AGE] Cavallieri U *Minerva Med* 69: 991-1004, 30 Mar 78 (Ita) DL/78OCT513

PRE- AND POSTWEANING STUDIES ON DEVELOPMENT OF OBESITY IN MdB/MdB MICE. Le Marchand-Brustel Y, Jeanrenaud B

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

Am J Physiol 234: e568-74, Jun 78 (Eng) DL/78OCT679

1.E.3.7 HYPERGLYCEMIA, METABOLISM

[CONGENITAL METABOLIC ACIDOSIS IN THE POSTNATAL PERIOD] Schreier K, Porath U *Dtsch Med Wochenschr* 103: 943-7, 2 Jun 78 (Ger) [35 ref.] DL/78OCT335

LONG-TERM REGULATION OF ADIPOCYTE GLUCOSE TRANSPORT CAPACITY BY CIRCULATING INSULIN IN RATS. Kobayashi M, Olefsky JM *J Clin Invest* 62: 73-81, Jul 78 (Eng) DL/78OCT435

GLUCOSE DISPOSAL IN LOW-BIRTH-WEIGHT INFANTS DURING STEADY-STATE HYPERGLYCEMIA: EFFECTS OF EXOGENOUS INSULIN ADMINISTRATION. Pollak A, Cowett RM, Schwartz R, Oh W *Pediatrics* 61: 546-9, Apr 78 (Eng) DL/78OCT545

RELATIVE CHROMIUM RESPONSE AS AN INDICATOR OF CHROMIUM STATUS. Liu VJ, Morris JS *Am J Clin Nutr* 31: 972-6, Jun 78 (Eng) DL/78OCT669

1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY

GLUCOPRIVIC FEEDING BEHAVIOR IN ABSENCE OF OTHER SIGNS OF GLUCOPRIVATION. Ritter RC, Roelke M, Neville M *Am J Physiol* 234: e617-21, Jun 78 (Eng) DL/78OCT681

1.E.3.9 HYPERGLYCEMIA, URINE

GLUCOSE DISPOSAL IN LOW-BIRTH-WEIGHT INFANTS DURING STEADY-STATE HYPERGLYCEMIA: EFFECTS OF EXOGENOUS INSULIN ADMINISTRATION. Pollak A, Cowett RM, Schwartz R, Oh W *Pediatrics* 61: 546-9, Apr 78 (Eng) DL/78OCT545

1.E.4 GLYCOSURIA

PANCREATIC ISLET ISOTRANSPLANTATION. EFFECTS OF AGE AND ORGAN CULTURE OF DONOR ISLETS ON REVERSAL OF DIABETES IN RATS. Selawry H, Harrison J, Patipa M, Mintz DH *Diabetes* 27: 625-31, Jun 78 (Eng) DL/78OCT353

THE SPONTANEOUSLY DIABETIC WISTAR RAT (THE BB RAT). STUDIES PRIOR TO AND DURING DEVELOPMENT OF THE OVERT SYNDROME. Nakhoda AF, Like AA, Chappel CI, Wei CN, Marliss EB *Diabetologia* 14: 199-207, Mar 78 (Eng) DL/78OCT386

1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED

1.E.4.2 GLYCOSURIA, COMPLICATIONS

1.E.4.3 GLYCOSURIA, DIAGNOSIS

1.E.4.4 GLYCOSURIA, DRUG THERAPY

1.E.4.5 GLYCOSURIA, ENZYMOLOGY

1.E.4.6 GLYCOSURIA, ETIOLOGY

1.E.4.7 GLYCOSURIA, METABOLISM

GLIPIZIDE IN THE TREATMENT OF MATURITY-ONSET DIABETES: A MULTI-CENTRE, OUT-PATIENT STUDY. Fowler LK *Curr Med Res Opin* 5: 418-23, 1978 (Eng) DL/78OCT317

1.E.4.8 GLYCOSURIA, OCCURRENCE

1.E.5 GLYCOSURIA, RENAL

INSULIN-REACTION TEST FOR DIAGNOSIS OF LOW RENAL THRESHOLD FOR GLUCOSE IN AFRICAN DIABETICS. Umez-Eronini EM, Isichei UP, Egwuatu VE *Lancet* 2: 12-3, 1 Jul 78 (Eng) DL/78OCT487

[INSULIN SECRETION IN RENAL DIABETES] Carta O, Caselle MT, Dani F *Minerva Med* 69: 1929-43, 2 Jun 78 (Ita) DL/78OCT536

1.E.6 HYPOGLYCEMIA

[NEWBORN INFANTS, OFFSPRING OF DIABETIC MOTHERS WHOSE DIABETES WAS STRICTLY CONTROLLED DURING PREGNANCY (CLINICAL RESULTS OF 476 CASES)] Barbarani V, Penoff P, Cattaneo F, Vitali S, Marini A *Rev Med Suisse Romande* 98: 259-67, May 78 (Fre) DL/78OCT589

EFFECT OF FASTING ON BLOOD GLUCOSE OF PARTURIENT AND HER FULL TERM INFANT. Ikonen RS, Hagman E, Pystynen P *Acta Obstet Gynecol Scand* 57: 241-4, 1978 (Eng) DL/78OCT647

PREVENTIVE TREATMENT OF NEONATAL HYPOGLYCAEMIA IN INFANTS OF INSULIN DEPENDENT DIABETIC MOTHERS. Pardou A *Acta Paediatr Belg* 31: 35-6, Jan-Mar 78 (Eng) DL/78OCT650

1.E.6.1 HYPOGLYCEMIA, BLOOD

TUMOR ASSOCIATED HYPOGLYCEMIA AND ELEVATED SERUM NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY. Castro A, Florez L, Rozanski JJ, Mintz DH *J Fla Med Assoc* 65: 421-4, Jun 78 (Eng) DL/78OCT452

MITHRAMYCIN FOR HYPOGLYCEMIA IN MALIGNANT INSULINOMA. Kiang DT, Frenning DH, Bauer GE *N Engl J Med* 299: 134-5, 20 Jul 78 (Eng) DL/78OCT506

1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED

EFFECTS OF HYPOGLYCEMIC AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VII. MORTALITY AND SELECTED NONFATAL EVENTS WITH INSULIN TREATMENT. Knatterud GL, Klimt CR, Levin ME, Jacobson ME, Goldner MG *JAMA* 240: 37-42, 7 Jul 78 (Eng) DL/78OCT464

FACTITIOUS HYPOGLYCAEMIA [EDITORIAL] Anonymous *Lancet* 1: 1293, 17 Jun 78 (Eng) DL/78OCT482

[HYPOGLYCEMIA INDUCED BY A DEXTROPROPOXYPHENE HYDROCHLORIDE-PARACETAMOL COMPOUND (LETER)] Leuzinger D, Lucas D, Seta F *Nouv Presse Med* 7: 1122, 1 Apr 78 (Fre) DL/78OCT549

GLUCOPRIVIC FEEDING BEHAVIOR IN ABSENCE OF OTHER SIGNS OF GLUCOPRIVATION. Ritter RC, Roelke M, Neville M *Am J Physiol* 234: e617-21, Jun 78 (Eng) DL/78OCT681

SALICYLATE-INDUCED HYPOGLYCEMIA AND KETOACIDOSIS IN A NONDIABETIC ADULT. Arena FP, Dugowson C, Saudek CD *Arch Intern Med* 138: 1153-4, Jul 78 (Eng) DL/78OCT697

[MAJOR HYPOGLYCEMIC COMPLICATIONS IN CHILDREN TREATED BY BETA BLOCKADERS] Breviere GM, Rey C, Pernot C, Dupuis C *Arch Mal Coeur* 71: 585-8, May 78 (Fre) DL/78OCT698

1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS

1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS

FACTITIOUS HYPOGLYCAEMIA [EDITORIAL] Anonymous *Lancet* 1: 1293, 17 Jun 78 (Eng) DL/78OCT482

INSULIN-REACTION TEST FOR DIAGNOSIS OF LOW RENAL THRESHOLD FOR GLUCOSE IN AFRICAN DIABETICS. Umez-Eronini EM, Isichei UP, Egwuatu VE *Lancet* 2: 12-3, 1 Jul 78 (Eng) DL/78OCT487

RELIABILITY OF DEXTROSTIX, READ BY EYE, AS A MEASURE OF LOW BLOOD GLUCOSE VALUES. Dorchy H, Loeb H *Acta Paediatr Belg* 31: 49-50, Jan-Mar 78 (Eng) DL/78OCT651

1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY

MITHRAMYCIN FOR HYPOGLYCEMIA IN MALIGNANT INSULINOMA. Kiang DT, Frenning DH, Bauer GE *N Engl J Med* 299: 134-5, 20 Jul 78 (Eng) DL/78OCT506

REDUCED GLUCONEOGENESIS DUE TO HYPERINSULINISM: HORMONAL AND METABOLIC STUDIES IN AN INFANT WITH HYPOGLYCEMIA. Vidnes J, Oyasaeter S *Pediatr Res* 53: 619-24, Feb 78 (Eng) DL/78OCT544

REMISSION OF HYPOGLYCEMIA AFTER PARTIAL RESECTION OF A METASTATIC ISLET CELL TUMOR. Murray FT, Nakhoda AF, Rae P, Langer B, Ambus U, Marliss EB *Am J Surg* 135: 864-52, Jun 78 (Eng) DL/78OCT683

SALICYLATE-INDUCED HYPOGLYCEMIA AND KETOACIDOSIS IN A NONDIABETIC ADULT. Arena FP, Dugowson C, Saudek CD *Arch Intern Med* 138: 1153-4, Jul 78 (Eng) DL/78OCT697

1.E.6.6 HYPOGLYCEMIA, ETIOLOGY

EFFECT OF NIALAMIDE AND RESERPIN ON CATECHOLAMINE CONTENT IN RAT ADRENAL MEDULLA AFTER ELECTRICALLY PROVOKED HYPOGLYCEMIC CONVULSIONS. Nowicka H, Bargiel Z, Wasilewska E *Bull Acad Pol Sci [Biol]* 26: 211-4, 1978 (Eng) DL/78OCT300

GROWTH OF A THYMOMA IN DIABETIC MICE TREATED WITH INSULIN. Pavelic K, Slijepcevic M *Eur J Cancer* 14: 675-9, Jun 78 (Eng) DL/78OCT340

HYPOGLYCEMIC ATTACK: CAUSES AND TREATMENT. Chue PW *Dent Surv* 52: Jan 76 (Eng) DL/78OCT350

TUMOR ASSOCIATED HYPOGLYCEMIA AND ELEVATED SERUM NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY. Castro A, Florez L, Rozanski JJ, Mintz DH *J Fla Med Assoc* 65: 421-4, Jun 78 (Eng) DL/78OCT452

[ENDOCRINOLOGICAL ASPECTS OF KETOTIC HYPOGLYCEMIA AND ADRENAL CALCIFICATION (AUTHORS TRANSL.)] Ploier R, Tultzer W, Zimprich H, Parth K *Klin Paediatr* 190: 313-8, May 78 (Ger) DL/78OCT469

Diabetes Literature—Hierarchical Index

1.F DIABETES

MITHRAMYCIN FOR HYPOGLYCEMIA IN MALIGNANT INSULINOMA. Kiang DT, Frenning DH, Bauer GE *N Engl J Med* 299: 134-5, 20 Jul 78 (Eng) DL/78OCT506

CASE RECORDS OF THE MASSACHUSETTS GENERAL HOSPITAL. WEEKLY CLINICOPATHOLOGICAL EXERCISES. CASE 30-1978. Anonymous *N Engl J Med* 299: 241-8, 3 Aug 78 (Eng) DL/78OCT508

REDUCED GLUCONEOGENESIS DUE TO HYPERINSULINISM: HORMONAL AND METABOLIC STUDIES IN AN INFANT WITH HYPOGLYCEMIA. Vidnes J, Oyasæter S *Pediatr Res* 53: 619-24, Feb 78 (Eng) DL/78OCT544

[METABOLIC DISORDERS IN CHRONIC ALCOHOLISM] Lao B *Pol Tyg Lek* 33: 699-702, 2 Apr 78 (Pol) [28 ref.] DL/78OCT555

PECTIN AND GASTRIC EMPTYING IN THE DUMPING SYNDROME. Leeds AR, Ralphs DN, Boulos P, Ebied F, Metz G, Dilawari JB, Elliott A, Jenkins DJ *Proc Nutr Soc* 37: 23a, May 78 (Eng) DL/78OCT566

[HYPOGLYCEMIA AND EXCHANGE TRANSFUSION] Beca JP, Filipa R, Roman C *Rev Chil Pediatr* 47: 388-93, Sep-Dec 76 (Spa) DL/78OCT575

[HYPONATREMIA AND HYPOGLYCEMIA AFTER TREATMENT WITH CHLORPROPAMIDE. CASE HISTORIES WITH REVIEW OF THE LITERATURE ON 18 CASES OF CHLORPROPAMIDE INDUCED HYPONATREMIA] Brundler H, Berger W *Schweiz Med Wochenschr* 108: 1035-40, 8 Jul 78 (Ger) DL/78OCT595

REMISSION OF HYPOGLYCEMIA AFTER PARTIAL RESECTION OF A METASTATIC ISLET CELL TUMOR. Murray FT, Nakhoda AF, Rae P, Langer B, Ambus U, Marliss EB *Am J Surg* 135: 864-52, Jun 78 (Eng) DL/78OCT683

PERSISTENT NEONATAL HYPOGLYCAEMIA DUE TO GLUCAGON DEFICIENCY. Kollee LA, Monnens LA, Cecijka V, Wilms RM *Arch Dis Child* 53: 422-4, May 78 (Eng) DL/78OCT695

1.E.6.7 HYPOGLYCEMIA, METABOLISM

SIGNALS FOR GLUCAGON SECRETION. Bloom SR *Ciba Found Symp* 161-72, 1977 (Eng) DL/78OCT327

[ENDOCRINOLOGICAL ASPECTS OF KETOTIC HYPOGLYCEMIA AND ADRENAL CALCIFICATION (AUTHORS TRANSL)] Ploier R, Tulzer W, Zimprich H, Parth K *Klin Paediatr* 190: 313-8, May 78 (Ger) DL/78OCT469

HYPOGLYCEMIA AS A PROVOCATIVE TEST OF PROLACTIN RELEASE. Woolf PD, Lee LA, Leebaw WF *Metabolism* 27: 869-77, Jul 78 (Eng) DL/78OCT499

REDUCED GLUCONEOGENESIS DUE TO HYPERINSULINISM: HORMONAL AND METABOLIC STUDIES IN AN INFANT WITH HYPOGLYCEMIA. Vidnes J, Oyasæter S *Pediatr Res* 53: 619-24, Feb 78 (Eng) DL/78OCT544

1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY

[HEMODYNAMIC CHANGES IN HYPOGLYCEMIC SHOCK] Gutierrez C, Piza R, Chousleb A, Hidalgo MA, Ortigosa JL *Prensa Med Mex* 42: 476-81, Nov-Dec 77 (Spa) DL/78OCT557

GLUCOPRIVIC FEEDING BEHAVIOR IN ABSENCE OF OTHER SIGNS OF GLU-

COPRIVATION. Ritter RC, Roelke M, Neville M *Am J Physiol* 234: e617-21, Jun 78 (Eng) DL/78OCT681

1.E.6.9 HYPOGLYCEMIA, THERAPY

HYPOGLYCEMIC ATTACK: CAUSES AND TREATMENT. Chue PW *Dent Surv* 52: Jan 76 (Eng) DL/78OCT350

1.F DIABETES

1.F.1 ALLOXAN DIABETES (SEE SEC. 1.F.10.2)

1.F.2 DIABETES MELLITUS

[DIABETES AND CONGENITAL CARDIOPATHY] Perez-Trevino C, Alger C, Dominguez RM *Gac Med Mex* 113: 581-4, Dec 77 (Spa) DL/78OCT388

[HIGH DIETARY FIBER AND DIABETICS (EDITORIAL)] Kanter Y, Eitan N, Barzilai D *Harefuah* 94: 148-9, Feb 78 (Heb) DL/78OCT396

DIETARY FIBER FOR THE DIABETIC [EDITORIAL] Vaisrub S *JAMA* 240: 379, 28 Jul 78 (Eng) DL/78OCT466

[PRE- AND POSTOPERATIVE TREATMENT OF THE DIABETIC PATIENT] Lenti G *Minerva Med* 69: 1107-12, 31 Mar 78 (Ita) DL/78OCT515

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1.F.2.1 DIABETES MELLITUS, JUVENILE

PSYCHO-SOCIAL ASPECTS OF THE CARE OF THE JUVENILE DIABETIC [EDITORIAL] Vaishnav S *Indian Pediatr* 14: 869-70, Nov 77 (Eng) DL/78OCT405

VIRUS-INDUCED DIABETES MELLITUS: REOVIRUS INFECTION OF PANCREATIC BETA CELLS IN MICE. Onodera T, Jensen AB, Yoon JW, Notkins AL *Science* 201: 529-31, 11 Aug 78 (Eng) DL/78OCT600

FOOD HABITS OF 215 DIABETIC CHILDREN IN BELGIUM. Mozin MJ, Dorchy H, de Maertelaer V, Ernould C, Loeb H *Acta Paediatr Belg* 31: 56-8, Jan-Mar 78 (Eng) DL/78OCT654

SPONTANEOUS FOOD INTAKE IN JUVENILE DIABETES MELLITUS. Gillet P, Expaignet H, Francois R *Acta Paediatr Belg* 31: 59, Jan-Mar 78 (Eng) DL/78OCT655

DIABETES MELLITUS AND ATHLETICS [LETTER] Travis LB, Speegle D *Am J Dis Child* 132: 725, Jul 78 (Eng) DL/78OCT673

1.F.3 DIABETES, BIOCHEMISTRY RELATED

1.F.3.1 DIABETES, METABOLISM

[GLUCOSE TOLERANCE AND INSULIN SECRETION IN CHILDREN OF BOTH PARENTS DIABETIC (AUTHORS TRANSL)] Dvorakova L, Polackova H *Čas Lek Cesk* 117: 488-92, 21 Apr 78 (Cze) DL/78OCT304

THE EFFECT OF HYPERGLUCAGONEMIA ON BLOOD GLUCOSE CONCENTRATIONS AND ON INSULIN REQUIREMENTS IN INSULIN-REQUIRING DIABETES MELLITUS. Clarke WL, Santiago JV, Kipnis DM *Diabetes* 27: 649-52, Jun 78 (Eng) DL/78OCT357

C-PEPTIDE SECRETION DURING THE REMISSION PHASE OF JUVENILE DIABETES. Heinze E, Beischer W, Keller L, Winkler G, Teller WM, Pfeiffer EF *Diabetes* 27: 670-6, Jun 78 (Eng) DL/78OCT360

VIRUS-INDUCED DIABETES MELLITUS. XI. REPLICATION OF COXSACKIE B3 VIRUS IN HUMAN PANCREATIC BETA CELL CULTURES. Yoon JW, Onodera T, Jensen AB, Notkins AL *Diabetes* 27: 778-81, Jul 78 (Eng) DL/78OCT375

KINETICS OF HUMAN CONNECTING PEPTIDE IN NORMAL AND DIABETIC SUBJECTS. Faber OK, Hagen C, Binder C, Markussen J, Naithani VK, Blix PM, Kuzuya H, Horwitz DL, Rubenstein AH, Rossing N *J Clin Invest* 62: 197-203, Jul 78 (Eng) DL/78OCT432

INSULIN-REACTION TEST FOR DIAGNOSIS OF LOW RENAL THRESHOLD FOR GLUCOSE IN AFRICAN DIABETICS. Umez-Eronini EM, Isichei UP, Ekwuatu VE *Lancet* 2: 12-3, 1 Jul 78 (Eng) DL/78OCT487

BIPHASIC EFFECT OF SOMATOSTATIN ON ORAL GLUCOSE TOLERANCE IN MATURITY-ONSET DIABETES. Tamborlane WV, Sherwin RS, Hendler R, Felig P *Metabolism* 27: 849-53, Jul 78 (Eng) DL/78OCT498

[PRE- AND POSTOPERATIVE TREATMENT OF THE DIABETIC PATIENT] Lenti G *Minerva Med* 69: 1107-12, 31 Mar 78 (Ita) DL/78OCT515

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1.F.3.2 DIABETES, ENZYMOLOGY

[DOPAMINE-BETA-HYDROXYLASE IN MAN AND ANIMALS AT PHYSIOLOGICAL AND PATHOLOGICAL STATES] Galebskaia LV *Ukr Biohik Zh* 50: 381-93, May-Jun 78 (Rus) DL/78OCT615

1.F.3.3 DIABETES, BLOOD

SIMULTANEOUS DETERMINATION OF SIALIC ACID AND PROTEIN IN ERYTHROCYTE MEMBRANE FROM DIABETIC PATIENTS [LETTER] Gerbaut L, de Lature D, Olive AG, Pequignot H *Clin Chem* 24: 1287-8, Jul 78 (Eng) DL/78OCT310

1.F DIABETES

DOSAGE OF HEMOGLOBIN A1C BY ISOELECTROFOCUSING. Schoos R, Schoos-Barbette S, Lambotte C *Clin Chim Acta* 86: 61-5, 16 May 78 (Eng) DL/78OCT311

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REPRODUCIBILITY AND COMPARATIVE ANALYSIS OF REPEATED INTRAVENOUS AND ORAL GLUCOSE TOLERANCE TESTS. Ganda OP, Day JL, Soeldner JS, Connors JH, Gleason RE *Diabetes* 27: 715-25, Jul 78 (Eng) DL/78OCT366

ALDOSTERONE RESPONSIVENESS IN PATIENTS WITH DIABETES MELLITUS. Christlieb AR, Kaldany A, Delia JA, Williams GH *Diabetes* 27: 732-7, Jul 78 (Eng) DL/78OCT368

RESTORATION OF THE ACUTE INSULIN RESPONSE BY SODIUM SALICYLATE. A GLUCOSE DOSE-RELATED PHENOMENON. Chen M, Robertson RP *Diabetes* 27: 750-6, Jul 78 (Eng) DL/78OCT371

PROINSULIN AND A-COMPONENT ANTIBODIES IN DIABETICS AFTER LONG-TERM MONOCOMPONENT INSULIN TREATMENT. Bruni B, Gamba S, Regis G, Turco GL *Diabetologia* 14: 165-9, Mar 78 (Eng) DL/78OCT381

A RAPID MICRO-SCALE METHOD FOR THE MEASUREMENT OF HAEMOGLOBIN A1(A+B+C). Welch SG, Boucher BJ *Diabetologia* 14: 209-11, Mar 78 (Eng) DL/78OCT387

FASTING + POSTPRANDIAL BLOOD SUGAR STUDIES IN TREATED + UNTREATED DIABETIC PATIENTS. George KA, Augusti KT, Ramachandran M *Indian J Exp Biol* 15: 1047-9, Nov 77 (Eng) DL/78OCT402

STATE OF LIPID SATURATION IN HUMAN PLASMA AND ERYTHROCYTES OF NORMAL + DIABETIC SUBJECTS. Chitre RG, Desai BP *Indian J Med Sci* 31: 4-6, Jan 77 (Eng) DL/78OCT403

GLUCOSE TOLERANCE AND BLOOD PRESSURE IN TWO POPULATION SAMPLES: THEIR RELATION TO DIABETES MELLITUS AND HYPERTENSION. Jarrett RJ, Keen H, McCartney M, Fuller JH, Hamilton PJ, Reid DD, Rose G *Int J Epidemiol* 7: 15-24, Mar 78 (Eng) DL/78OCT406

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[LOW ARTERIAL OXYGEN TENSION IN DIABETIC PATIENTS (AUTHORS TRANSL)] Sugahara K, Tsuji K, Araki Y, Toyama N, Morioka T *Masui* 27: 473-8, May 78 (Jpn) DL/78OCT467

TREATMENT OF SEVERE DIABETIC HYPERTRIGLYCERIDAEMIA BY PLASMA EXCHANGE [LETTER] Betteridge DJ, Bakowski M, Taylor KG, Reckless JP, de Silva SR, Galton DJ *Lancet* 1: 1368, 24 Jun 78 (Eng) DL/78OCT485

EFFECTS OF THERAPY ON PLASMA-HIGH-DENSITY-LIPOPROTEIN-CHOLESTEROL CONCENTRATION IN DIABETES MELLITUS. Calvert GD, Graham JJ, Mannik T, Wise PH, Yeates RA *Lancet* 2: 66-8, 8 Jul 78 (Eng) DL/78OCT489

H.D.L. CHOLESTEROL IN DIABETES MELLITUS [LETTER] Durrington P *Lancet* 2: 206, 22 Jul 78 (Eng) DL/78OCT493

ORGANOPHOSPHORUS POISONING AND REMISSION OF DIABETES [LETTER] Samantray SK *Med J Aust* 1: 443, 22 Apr 78 (Eng) DL/78OCT500

[RAISED GLUCAGON LEVELS OF THE BLOOD INDUCED BY ARGININE: RELATION TO BLOOD SUGAR, BLOOD INSULIN AND STH IN AGED NON-DIABETICS AND DIABETICS] Ferrero E, Casale G, Tassi G, Ciapponi A *Minerva Med* 69: 1233-9, 14 Apr 78 (Ita) DL/78OCT517

[BEHAVIOR OF PLATELET AGGREGATION IN SUBJECTS WITH DIABETES MELLITUS] Abbadessa V, Pozzocco U *Minerva Med* 69: 1661-4, 12 May 78 (Ita) DL/78OCT528

[RESULTS OF A CLINICAL STUDY OF A GROUP OF HOSPITALIZED DIABETICS UNDER TREATMENT WITH DEPOT BUFORMIN] Durante F, Scaffidi A, Rotolo G, Rini GB *Minerva Med* 69: 1665-72, 12 May 78 (Ita) DL/78OCT529

[CONTROL OF THE LIPID PROFILE IN INSULIN-DEPENDENT DIABETIC CHILDREN] Cerutti F, Sacchetti C, Baraton S, Levis F, Martini A *Minerva Med* 69: 1909-16, 2 Jun 78 (Ita) DL/78OCT534

[PRELIMINARY FINDINGS ON 2 GROUPS OF DIABETICS WITH REGARD TO PLATELET AGGREGATION IN RELATION TO RETINOPATHY AND ULTIMATE RELATION TO ANTIDIABETIC THERAPY] Cavaliere R, Giangrandi E, Innocenti M, Parisi R *Minerva Med* 69: 1923-8, 2 Jun 78 (Ita) DL/78OCT535

[IMPORTANCE OF ENDOCRINE (PLH-ESTRIOL) MONITORING IN PREGNANCY COMPLICATED BY DIABETES MELLITUS] Moggi G, Gattini M, Teti G, Giorgi G, Arcidiacono G, Giusti G, Piro MA, Chiarelli M, Chisci R *Minerva Ginecol* 30: 182-6, Mar 78 (Ita) DL/78OCT537

[BLOOD PROLACTIN IN INSULIN-DEPENDENT DIABETICS. BASAL STUDY AND EFFECT OF STIMULATION] Champeyroux J, Moinade S, Gaillard G, Boucher D *Nouv Presse Med* 7: 1007-8, 25 Mar 78 (Fre) DL/78OCT548

[MICROMETHOD DETERMINATION OF HEMOGLOBIN A1C IN DIABETICS. PRELIMINARY RESULTS (LETTER)] Poynard JP, Malgrange D, Couchot J, Caron J, Leutenegger M, Maquart FX, Than Trong A, Borel JP *Nouv Presse Med* 7: 1648-9, 13 May 78 (Fre) DL/78OCT550

[PROLACTIN LEVELS COMPARED BETWEEN NORMAL SUBJECTS AND DIABETICS (LETTER)] Champeyroux J, Boucher D, Moinade S *Nouv Presse Med* 7: 208-9, 21 Jan 78 (Fre) DL/78OCT552

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A STUDY OF THE RELIABILITY OF THE EYETONE AND REFLECTANCE METER IN INSTANT BLOOD GLUCOSE DETERMINATIONS. Mimouni M, Galatzer A, Madanes L, Lew E, Doron M, Laron Z *Acta Paediatr Belg* 31: 50-3, Jan-Mar 78 (Eng) DL/78OCT652

INTEREST OF BLOOD GLUCOSE VALUES DETERMINED AT HOME IN JUVENILE DIABETES. Ernould C, Graff MP *Acta Paediatr Belg* 31: 53-6, Jan-Mar 78 (Eng) DL/78OCT653

1.F.3.4 DIABETES, URINE

THE EFFECT OF GLUCOSE LOADING ON URINARY EXCRETION OF CHROMIUM IN NORMAL ADULTS, IN INDIVIDUALS FROM DIABETIC FAMILIES AND IN DIABETICS. Gurson CT, Saner G *Am J Clin Nutr* 31: 1158-61, Jul 78 (Eng) DL/78OCT670

URINARY CHROMIUM EXCRETION, DIURNAL CHANGES, AND RELATIONSHIP TO CREATININE EXCRETION IN HEALTHY AND SICK INDIVIDUALS OF DIFFERENT AGES. Gurson CT, Saner G *Am J Clin Nutr* 31: 1162-6, Jul 78 (Eng) DL/78OCT671

RENAL INJURY ASSOCIATED WITH INTRAVENOUS PYELOGRAPHY IN NON-DIABETIC AND DIABETIC PATIENTS. Van-Zee BE, Hoy WE, Talley TE, Jaenike JR *Ann Intern Med* 89: 51-4, Jul 78 (Eng) DL/78OCT692

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AGING: BIOLOGIC OR PATHOLOGIC? Blumenthal HT *Hosp Pract* 13: 127-37, Apr 78 (Eng) DL/78OCT401

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Diabetes Literature—Hierarchical Index

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[SEXUAL FUNCTION AND GONADAL DAMAGE IN THE FEMALE DIABETIC] Carolo F *Minerva Med* 69: 1627-32, 12 May 78 (Ita) DL/78OCT522

[DIABETIC HEART DISEASE. POLYGRAPHIC STUDY] Negro R, Leone S, Santangelo M, Modicano V *Minerva Med* 69: 1633-40, 12 May 78 (Ita) DL/78OCT523

[DIVERSITY OF THE RHEOGRAPHIC BEHAVIOR UNDER EFFORT IN PROXIMAL AND DISTAL AREAS OF THE LOWER EXTREMITIES IN DIABETIC AND PRE-DIABETIC SUBJECTS] Furitano G, Di Pasquale P, Paterna S *Minerva Med* 69: 1645-9, 12 May 78 (Ita) DL/78OCT525

[IMPORTANCE OF ENDOCRINE (PLH-ESTRIOL) MONITORING IN PREGNANCY COMPLICATED BY DIABETES MELLITUS] Moggi G, Gattini M, Teti G, Giorgi G, Arcidiacono G, Giusti G, Piro MA, Chiarelli M, Chisci R *Minerva Ginecol* 30: 182-6, Mar 78 (Ita) DL/78OCT537

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JUVENILE ONSET DIABETES MELLITUS IN PREGNANT WOMEN: FAILURE TO ASSOCIATE WITH COXSACKIE B1-6, MUMPS, OR RESPIRATORY SYNCYTIAL VIRUS IN-

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1.F.6.1 DIABETIC KETOACIDOSIS

1.F.6.1.1 ACIDOSIS, DIABETIC

THE CLINICAL AND BIOCHEMICAL IMPLICATIONS OF PYRUVATE CARBOXYLASE DEFICIENCY. DeVivo DC, Haymond MW, Leckie MP, Bussman YL, McDougal DB Jr, Pagliara AS *J Clin Endocrinol Metab* 45: 1281-96, Dec 77 (Eng) *DL/78OCT69

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PITUITARY HORMONES IN DIABETIC KETOACIDOSIS (LETTER) Campbell IA, Munro JF, Duncan LJ *Lancet* 2: 206-7, 22 Jul 78 (Eng) DL/78OCT494

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1.F DIABETES

1.F.6.2 DIABETIC ANGIOPATHIES

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1.F DIABETES

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- [DIABETIC EMBRYOPATHY/FETOPATHY. PATHOPHYSIOLOGY AND CLINICAL ASPECTS]** Feige A *Med Klin* 73: 819-26, 2 Jun 78 (Ger) DL/78OCT502
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- [PLACENTAL (HPL, HSAP, CAP) AND FETAL (ESTRIOL IN URINE AND BLOOD) PARAMETERS IN HIGH RISK PREGNANCIES]** Battaglia GB, Morresi G, Coronella L, Messeri G, Valenza T *Quad Scavo Diagn* 13: 434-48, Dec 77 (Ita) DL/78OCT570
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- [DIABETES MELLITUS AND ESTROGENS-PROGESTANS]** Stephan F, Reville P *Rev Clin Esp* 148: 561 9, 31 Mar 78 (Spa) DL/78OCT580
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- [NUTRITION IN PREGNANCY COMPLICATED BY DIABETES]** Lipovskii SM *Akush Ginekol (Mosk)* 63-6, May 78 (Rus) DL/78OCT686
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1.F.7 DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS

1.F.7.1 DIABETES, OCCURRENCE

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[HEREDITY AND FREQUENTLY OCCURRING INTERNAL DISEASES] Brunecky Z *Vnitr Lek* 24: 487-95, May 78 (Cze) [30 ref.] DL/78OCT622

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1.F.7.2 DIABETES, ETIOLOGY

1.F DIABETES

[AETIOPATHOGENESIS OF DIABETES MELLITUS (AUTHORS TRANSL)] Dub O *Cas Lek Cesk* 117: 485-7, 21 Apr 78 (Cze) DL/78OCT303

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1.F.7.3 DIABETES, CONGENITAL

1.F.7.4 DIABETES, FAMILIAL AND GENETIC

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1.F.7.5 PREDIABETIC STATE

[DIVERSITY OF THE RHEOGRAPHIC BEHAVIOR UNDER EFFORT IN PROXIMAL AND DISTAL AREAS OF THE LOWER EXTREMITIES IN DIABETIC AND PREDIABETIC SUBJECTS] Furitano G, Di Pasquale P, Paterna S *Minerva Med* 69: 1645-9, 12 May 78 (Ita) DL/78OCT525

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1.F.8 DIABETES, DIAGNOSIS RELATED

1.F.8.1 GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)

1.F.8.2 DIABETES, DIAGNOSIS

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1.F.9 DIABETES, THERAPY RELATED

1.F.9.1 DIABETES, PREVENTION AND CONTROL

1.F.9.2 DIABETES, NUTRITION AND DIET THERAPY

1.F.9.2.1 OBESITY IN DIABETES

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1.F.9.2.2 GLUCOSE, THERAPEUTIC USE

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1.F.9.2.3 DIET

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1.F.9.2.4 DIABETIC DIET

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1.F.9.2.5 DIETARY CARBOHYDRATES

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1.F.9.2.6 DIETARY FATS

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ILEAL BYPASS IN THE CONTROL OF HYPERLIPIDEMIA AND ATHEROSCLEROSIS. Scott HW Jr *Arch Surg* 113: 62-70, Jan 78 (Eng) *DL/78OCT258

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1.F.9.2.7 CYCLAMATES

LONG TERM TOXICITY AND REPRODUCTION STUDY (INCLUDING A TERATOGENICITY STUDY) WITH CYCLAMATE, SACCHARIN AND CYCLOHEXYLAMINE. Kroes R, Peters PW, Berkvens JM, Verschuuren HG, de Vries T, van Esch GJ *Toxicology* 8: 285-300, Dec 77 (Eng) *DL/78OCT210

1.F.9.2.8 SACCHARIN

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1.F.9.3 DIABETES, INSULIN AND THERAPY

1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE

HEPATOTROPIC FACTORS: IMPLICATIONS FOR DIABETES MELLITUS. Johnston DG, Johnson GA, Alberti KG *Ciba Found Symp* 357-73, 1977 (Eng) DL/78OCT332

THE EFFECT OF HYPERGLUCAGONEMIA ON BLOOD GLUCOSE CONCENTRATIONS AND ON INSULIN REQUIREMENTS IN INSULIN-REQUIRING DIABETES MELLITUS. Clarke WL, Santiago JV, Kipnis DM *Diabetes* 27: 649-52, Jun 78 (Eng) DL/78OCT357

MANAGEMENT OF CHILDREN WITH DIABETIC KETOACIDOSIS WITH CONTINUOUS INTRAVENOUS LOW-DOSE INSULIN THERAPY. Fisher RH, Elders MJ *J Arkansas Med Soc* 73: 53-4, Jun 78 (Eng) DL/78OCT414

EFFECTS OF HYPOGLYCEMIC AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VII. MORTALITY AND SELECTED NONFATAL EVENTS WITH INSULIN TREATMENT. Knatterud GL, Klimt CR, Levin ME, Jacobson ME, Goldner MG *JAMA* 240: 37-42, 7 Jul 78 (Eng) DL/78OCT464

STERILITY PROBLEMS AND THE DIABETIC [LETTER] Dankert J, Drayer NM *Lancet* 1: 1256, 10 Jun 78 (Eng) DL/78OCT481

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PLUGGING OF NEEDLES WITH MONOTARD INSULIN [LETTER] OMullane NM, Robinson PL *Lancet* 2: 165, 15 Jul 78 (Eng) DL/78OCT492

LOW-DOSE INSULIN INFUSION THERAPY OF DIABETIC KETOACIDOSIS IN CHILDREN. Saxena KM, Leonard SA, Casey JL *Minn Med* 61: 354-6, Jun 78 (Eng) DL/78OCT505

[USEFULNESS OF TREATMENT WITH SMALL DOSES OF INSULIN IN PREGNANT PATIENTS WITH POTENTIAL OR LATENT DIABETES] Moggi G, Teti G, Gattini M, Giorgi G, Cappelli N, De Luca Brunori I, Coluccia A,

Chisci R *Minerva Ginecol* 30: 187-8, Mar 78 (Ita) DL/78OCT538

DIABETES AND GRAVES DISEASE COMPLICATING PREGNANCY. Hare JW, Kitzmiller JL *Obstet Gynecol* 51: 655-8, Jun 78 (Eng) DL/78OCT542

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INTEREST OF BLOOD GLUCOSE VALUES DETERMINED AT HOME IN JUVENILE DIABETES. Ernould C, Graff MP *Acta Paediatr Belg* 31: 53-6, Jan-Mar 78 (Eng) DL/78OCT653

1.F.9.3.2 INSULIN, THERAPEUTIC USE

HYDROLASE ACTIVITIES IN THE RAT AORTA. I. EFFECTS OF DIABETES MELLITUS AND INSULIN TREATMENT. Wolinsky H, Goldfischer S, Capron L, Capron F, Coltoff-Schiller B, Kasak L *Circ Res* 42: 821-31, Jun 78 (Eng) DL/78OCT306

GROWTH OF A THYMOMA IN DIABETIC MICE TREATED WITH INSULIN. Pavelic K, Slijepcevic M *Eur J Cancer* 14: 675-9, Jun 78 (Eng) DL/78OCT340

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EQUILIBRIUM BINDING ASSAY AND KINETIC CHARACTERIZATION OF INSULIN ANTIBODIES. Goldman J, Baldwin D, Pugh W, Rubenstein AH *Diabetes* 27: 653-60, Jun 78 (Eng) DL/78OCT358

IMPAIRED GRANULOCYTE ADHERENCE. A REVERSIBLE DEFECT IN HOST DEFENSE IN PATIENTS WITH POORLY CONTROLLED DIABETES. Bagdade JD, Stewart M, Walters E *Diabetes* 27: 677-81, Jun 78 (Eng) DL/78OCT361

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SUSTAINED EFFECT OF GLUCOSE-INSULIN-POTASSIUM ON MYOCARDIAL PERFORMANCE DURING REGIONAL ISCHEMIA. ROLE OF FREE FATTY ACID AND OSMOLALITY. Ahmed SS, Lee CH, Oldewurtel HA, Regan TJ *J Clin Invest* 61: 1123-35, May 78 (Eng) DL/78OCT422

EFFECTS OF HYPOGLYCEMIC AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VII. MORTALITY AND SELECTED NONFATAL EVENTS WITH INSULIN TREATMENT. Knatterud GL, Klimt CR, Levin ME, Jacobson ME, Goldner MG *JAMA* 240: 37-42, 7 Jul 78 (Eng) DL/78OCT464

UNIVERSITY GROUP DIABETES PROGRAM REVISITED [EDITORIAL] Barclay WR *JAMA* 240: 377-8, 28 Jul 78 (Eng) DL/78OCT465

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[USEFULNESS OF TREATMENT WITH SMALL DOSES OF INSULIN IN PREGNANT PATIENTS WITH POTENTIAL OR LATENT DIABETES] Moggi G, Teti G, Gattini M, Giorgi G, Cappelli N, De Luca Brunori I, Coluccia A, Chisci R *Minerva Ginecol* 30: 187-8, Mar 78 (Ita) DL/78OCT538

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[BLOOD PROLACTIN IN INSULIN-DEPENDENT DIABETICS. BASAL STUDY AND EFFECT OF STIMULATION] Champeyroux J, Moineau S, Gaillard G, Boucher D *Nouv Presse Med* 7: 1007-8, 25 Mar 78 (Fre) DL/78OCT548

[MONOCOMPONENT INSULINS] Rodriguez-Minon JL *Rev Clin Exp* 148: 579-82, 31 Mar 78 (Spa) DL/78OCT583

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[HYPEROSMOLAR, NON-KETOTIC DIABETIC COMA IN INFANTS] Haschke F, Hobenauer L *Wien Med Wochenschr* 128: 346-8, 20 Jun 78 (Ger) DL/78OCT634

PREVENTIVE TREATMENT OF NEONATAL HYPOGLYCAEMIA IN INFANTS OF INSULIN DEPENDENT DIABETIC MOTHERS. Pardou A *Acta Paediatr Belg* 31: 35-6, Jan-Mar 78 (Eng) DL/78OCT650

INTEREST OF BLOOD GLUCOSE VALUES DETERMINED AT HOME IN JUVENILE DIABETES. Ernould C, Graff MP *Acta Paediatr Belg* 31: 53-6, Jan-Mar 78 (Eng) DL/78OCT653

A METHOD FOR DETERMINATION OF ANTI-INSULIN ANTIBODIES IN THE PLASMA OF INSULIN-TREATED DIABETICS. Sekso M, Resetic J, Riznar V, Solter M *Acta Med Jugosl* 32: 125-34, 1978 (Eng) DL/78OCT657

INSULIN THERAPY FOR DEPRESSED MYOCARDIAL CONTRACTILITY AFTER PROLONGED ISCHEMIA. Muller JE, Mochizuki S, Koster JK Jr, Collins JJ Jr, Cohn LH, Neely JR *Am J Cardiol* 41: 1215-21, Jun 78 (Eng) DL/78OCT667

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1.F.9.4 DIABETES, ANTIDIABETICS AND THERAPY

1.F.9.4.1 ANTIDIABETICS

1.F.9.4.2 TOLBUTAMIDE

[UTILIZATION OF THE PERFUSION OF SURVIVING ORGANS IN TOXICOLOGICAL ANALYSIS. PREPARATION OF TOLBUTAMIDE, GLUTETHIMIDE AND CYCLOBARBITAL METABOLITES UTILIZING THE PERFUSION OF THE SURVIVING RAT LIVER] Hatle K, Vecerek B, Lutovska M, Perina M *Can*

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- Lek Cesk* 117: 395-9, 31 Mar 78 (Cze) DL/78OCT302
- THE POSITIVE INOTROPIC ACTION OF SULFONYLUREAS. A MECHANISM INDEPENDENT OF CYCLIC ADENOSINE 3,5-MONOPHOSPHATE.** Linden J, Brooker G *Diabetes* 27: 694-8, Jun 78 (Eng) DL/78OCT363
- [TRANSPLANTATION OF ISOLATED ISLANDS OF LANGERHANS FOR THE TREATMENT OF DIABETES MELLITUS]** Rumpf KD *Fortachr Med* 96: 1227-32, 15 Jun 78 (Ger) DL/78OCT399
- 1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES**
- [CLINICO-PHARMACOLOGICAL STUDY OF A NEW ORAL HYPOGLYCEMIC AGENT]** Tirelli F, Bonetti A, D'Antuono A, Magnati G, Pugnoli C, Strata A, Zuliani U *Clin Ter* 85: 115-51, 30 Apr 78 (Ita) DL/78OCT315
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- [DIURNAL VARIATIONS IN GLUCOSE TOLERANCE IN NORMAL SUBJECTS AND CHANGES INDUCED BY ORAL GLIBENCLAMIDE]** Pagano G, Diana A, Pisu E, Trovati M *Minerva Med* 69: 1899-908, 2 Jun 78 (Ita) DL/78OCT533
- [HYPONATREMIA AND HYPOGLYCEMIA AFTER TREATMENT WITH CHLORPROPAMIDE. CASE HISTORIES WITH REVIEW OF THE LITERATURE ON 18 CASES OF CHLORPROPAMIDE INDUCED HYPONATREMIA]** Brundler H, Berger W *Schweiz Med Wochenschr* 108: 1035-40, 8 Jul 78 (Ger) DL/78OCT595
- EFFECTS OF INSULIN AND ORAL ANTIDIABETIC AGENTS ON THE PLASMA TRIGLYCERIDE LEVELS IN LIPOATROPHIC DIABETES.** Sato T, Saito T, Yasuda K, Yoshinaga K *Tohoku J Exp Med* 124: 381-5, Apr 78 (Eng) DL/78OCT607
- 1.F.9.4.4 PHENFORMIN**
- GLIPIZIDE IN THE TREATMENT OF MATURE-ONSET DIABETES: A MULTI-CENTRE, OUT-PATIENT STUDY.** Fowler LK *Curr Med Res Opin* 5: 418-23, 1978 (Eng) DL/78OCT317
- ENHANCEMENT OF THE MITOCHONDRIAL CA²⁺ UPTAKE RATE BY PHENETHYL-BIGUANIDE AND OTHER ORGANIC CATIONS WITH HYPOGLYCEMIC ACTIVITY.** Davidoff F, Bertolini D, Haas D *Diabetes* 27: 757-65, Jul 78 (Eng) DL/78OCT372
- [WHAT IS THE ROLE OF THE BIGUANIDES IN THE TREATMENT OF DIABETES MELLITUS]** Hazard J *Sem Hop Paris* 54: 220-3, Feb 78 (Fre) DL/78OCT601
- 1.F.9.4.5 OTHER BIGUANIDES**
- GLIPIZIDE IN THE TREATMENT OF MATURE-ONSET DIABETES: A MULTI-CENTRE, OUT-PATIENT STUDY.** Fowler LK *Curr Med Res Opin* 5: 418-23, 1978 (Eng) DL/78OCT317
- [RESULTS OF A CLINICAL STUDY OF A GROUP OF HOSPITALIZED DIABETICS UNDER TREATMENT WITH DEPOT BUFORMIN]** Durante F, Scaffidi A, Rotolo G, Rini GB *Minerva Med* 69: 1665-72, 12 May 78 (Ita) DL/78OCT529
- [PRELIMINARY FINDINGS ON 2 GROUPS OF DIABETICS WITH REGARD TO PLATELET AGGREGATION IN RELATION TO**
- RETINOPATHY AND ULTIMATE RELATION TO ANTIDIABETIC THERAPY]** Cavaliere R, Giangrandi E, Innocenti M, Parisi R *Minerva Med* 69: 1923-8, 2 Jun 78 (Ita) DL/78OCT535
- [WHAT IS THE ROLE OF THE BIGUANIDES IN THE TREATMENT OF DIABETES MELLITUS]** Hazard J *Sem Hop Paris* 54: 220-3, Feb 78 (Fre) DL/78OCT601
- 1.F.9.5 DIABETES DRUG THERAPY**
- [CLINICO-PHARMACOLOGICAL STUDY OF A NEW ORAL HYPOGLYCEMIC AGENT]** Tirelli F, Bonetti A, D'Antuono A, Magnati G, Pugnoli C, Strata A, Zuliani U *Clin Ter* 85: 115-51, 30 Apr 78 (Ita) DL/78OCT315
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- HEPATOTROPIC FACTORS: IMPLICATIONS FOR DIABETES MELLITUS.** Johnston DG, Johnson GA, Alberti KG *Ciba Found Symp* 357: 73, 1977 (Eng) DL/78OCT332
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- IMPAIRED GRANULOCYTE ADHERENCE. A REVERSIBLE DEFECT IN HOST DEFENSE IN PATIENTS WITH POORLY CONTROLLED DIABETES.** Bagdade JD, Stewart M, Walters E *Diabetes* 27: 677-81, Jun 78 (Eng) DL/78OCT361
- PROINSULIN AND A-COMPONENT ANTIBODIES IN DIABETICS AFTER LONG-TERM MONOCOMPONENT INSULIN TREATMENT.** Bruni B, Gamba S, Regis G, Turco GL *Diabetologia* 14: 165-9, Mar 78 (Eng) DL/78OCT381
- [THE PRESENT STATUS OF THE TREATMENT OF DIABETES MELLITUS]** Canaan Z *Harefuah* 94: 134-7, Feb 78 (Heb) DL/78OCT394
- SYNDROME MALIN-LIKE SYMPTOMS PROBABLY DUE TO INTERACTION BETWEEN NEUROLEPTICA AND ORAL ANTIDIABETIC AGENTS.** Yamada M, Ishimaru T *Folia Psychiatr Neurol Jpn* 32: 33-40, 1978 (Eng) DL/78OCT398
- FASTING + POSTPRANDIAL BLOOD SUGAR STUDIES IN TREATED + UNTREATED DIABETIC PATIENTS.** George KA, Augusti KT, Ramachandran M *Indian J Exp Biol* 15: 1047-9, Nov 77 (Eng) DL/78OCT402
- MANAGEMENT OF CHILDREN WITH DIABETIC KETOACIDOSIS WITH CONTINUOUS INTRAVENOUS LOW-DOSE INSULIN THERAPY.** Fiser RH, Elders MJ *J Arkansas Med Soc* 75: 53-4, Jun 78 (Eng) DL/78OCT414
- EFFECTS OF HYPOGLYCEMIC AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VII. MORTALITY AND SELECTED NONFATAL EVENTS WITH INSULIN TREATMENT.** Knatterud GL, Klimt CR, Levin ME, Jacobson ME, Goldner MG *JAMA* 240: 37-42, 7 Jul 78 (Eng) DL/78OCT464
- UNIVERSITY GROUP DIABETES PROGRAM REVISITED [EDITORIAL]** Barclay WR *JAMA* 240: 377-8, 28 Jul 78 (Eng) DL/78OCT465
- STERILITY PROBLEMS AND THE DIABETIC [LETTER]** Dankert J, Drayer NM *Lancet* 1: 1256, 10 Jun 78 (Eng) DL/78OCT481
- PLUGGING OF NEEDLES WITH MONOTARD INSULIN [LETTER]** O'Mullane NM, Robinson PL *Lancet* 2: 165, 15 Jul 78 (Eng) DL/78OCT492
- [RESULTS OF A CLINICAL STUDY OF A GROUP OF HOSPITALIZED DIABETICS UNDER TREATMENT WITH DEPOT BUFORMIN]** Durante F, Scaffidi A, Rotolo G, Rini GB *Minerva Med* 69: 1665-72, 12 May 78 (Ita) DL/78OCT529
- [CONTROL OF THE LIPID PROFILE IN INSULIN-DEPENDENT DIABETIC CHILDREN]** Cerutti F, Sacchetti C, Baraton S, Levis F, Martini A *Minerva Med* 69: 1909-16, 2 Jun 78 (Ita) DL/78OCT534
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- DIABETES AND GRAVES DISEASE COMPLICATING PREGNANCY.** Hare JW, Kitzmiller JL *Obstet Gynecol* 51: 635-8, Jun 78 (Eng) DL/78OCT542
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- [ORAL HYPOGLYCEMIC AGENTS]** Mirouze J *Rev Clin Esp* 148: 575-8, 31 Mar 78 (Spa) DL/78OCT582
- [MONOCOMPONENT INSULINS]** Rodriguez-Minon JL *Rev Clin Esp* 148: 579-82, 31 Mar 78 (Spa) DL/78OCT583
- [HYPONATREMIA AND HYPOGLYCEMIA AFTER TREATMENT WITH CHLORPROPAMIDE. CASE HISTORIES WITH REVIEW OF THE LITERATURE ON 18 CASES OF CHLORPROPAMIDE INDUCED HYPONATREMIA]** Brundler H, Berger W *Schweiz Med Wochenschr* 108: 1035-40, 8 Jul 78 (Ger) DL/78OCT595
- [WHAT IS THE ROLE OF THE BIGUANIDES IN THE TREATMENT OF DIABETES MELLITUS]** Hazard J *Sem Hop Paris* 54: 220-3, Feb 78 (Fre) DL/78OCT601
- INTEREST OF BLOOD GLUCOSE VALUES DETERMINED AT HOME IN JUVENILE DIABETES.** Ernould C, Graff MP *Acta Paediatr Belg* 31: 53-6, Jan-Mar 78 (Eng) DL/78OCT653
- A METHOD FOR DETERMINATION OF ANTI-INSULIN ANTIBODIES IN THE PLASMA OF INSULIN-TREATED DIABETICS.** Sekso M, Resetic J, Riznar V, Solter M *Acta Med Lugosl* 32: 125-34, 1978 (Eng) DL/78OCT657
- 1.F.9.6 DIABETES THERAPY**
- [A NEW METHOD FOR THE PREPARATION OF A PANCREATIC GRAFT PRIOR TO TRANSPLANTATION: EXPERIMENTAL DATA AND HUMAN APPLICATIONS IN 9 TRANSPLANTS IN 8 DIABETICS (AUTHORS TRANSL)]** Dubernard JM, Traeger J, Neyra P, Touraine JL, Devonec M, Blanc-Brunat N, Ruiton A *Chirurgie* 104: 242-58, 1978 (Fre) DL/78OCT322
- [TRANSPLANTATION OF ISOLATED ISLANDS OF LANGERHANS FOR THE TREATMENT OF DIABETES MELLITUS]** Rumpf KD *Fortachr Med* 96: 1227-32, 15 Jun 78 (Ger) DL/78OCT399

1.F DIABETES

EFFECTS OF THERAPY ON PLASMA-HIGH-DENSITY-LIPOPROTEIN-CHOLESTEROL CONCENTRATION IN DIABETES MELLITUS. Calvert GD, Graham JJ, Mannik T, Wise PH, Yeates RA *Lancet* 2: 66-8, 8 Jul 78 (Eng) DL/78OCT489

NEW APPROACHES TO MANAGEMENT OF DIABETES. Owen J *Proc Annu Meet Med Sect Am Coun Life Insur* 9-25, 1977 (Eng) DL/78OCT559

[CHARACTERISTICS OF THE COURSE AND TREATMENT OF BURN DISEASE IN A PATIENT SUFFERING FROM A SEVERE DEGREE OF DIABETES MELLITUS] Kulbaka VS, Kozinets GP *Vestn Khir* 120: 91-2, May 78 (Rus) DL/78OCT620

DIABETES. Dettman G *Australas Nurses J* 7: 10, Apr 78 (Eng) DL/78OCT700

1.F.9.7 DIABETES, RADIOGRAPHY

1.F.9.8 DIABETES, SURGERY

1.F.9.9 DIABETES, MORTALITY

EFFECTS OF HYPOGLYCEMIC AGENTS ON VASCULAR COMPLICATIONS IN PATIENTS WITH ADULT-ONSET DIABETES. VII. MORTALITY AND SELECTED NONFATAL EVENTS WITH INSULIN TREATMENT. Knatterud GL, Klimt CR, Levin ME, Jacobson ME, Goldner MG *JAMA* 240: 37-42, 7 Jul 78 (Eng) DL/78OCT464

1.F.10 DIABETES, EXPERIMENTAL

1.F.10.1 DIABETES, CHEMICALLY INDUCED

HYPEROSMOLAR NON-KETOTIC DIABETES AND CIMETIDINE [LETTER] Pomare EW *Lancet* 1: 1202, 3 Jun 78 (Eng) DL/78OCT477

[DIABETES MELLITUS AND ESTROGENS-PROGESTANS] Stephan F, Reville P *Rev Clin Exp* 148: 561-9, 31 Mar 78 (Spa) DL/78OCT580

1.F.10.2 ALLOXAN DIABETES

1.F.10.2.1 ALLOXAN DIABETES, BLOOD

1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY

1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY

1.F.10.2.4 ALLOXAN DIABETES, METABOLISM

1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY

1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY

1.F.11 DIABETES, VETERINARY

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1.F.12 DIABETES, HISTORY

SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS

2.A ENDOCRINE PANCREAS

2.A.1 ISLETS (SEE SEC. 1.A)

2.A.2 INSULIN (SEE SEC. 1.C)

2.A.3 GLUCAGON (SEE SEC. 1.D)

2.B ADRENAL GLANDS

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2.B.1 ADRENAL CORTEX

2.B.2 ADRENAL CORTEX HORMONES

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2.B.2.1.1 CORTISONE

2.B.2.1.2 HYDROCORTISONE

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2.F.3.3 CORPUS LUTEUM AND PROGESTATIONAL HORMONES

2.F.3.3.1 CORPUS LUTEUM HORMONES

2.F.3.3.2 PROGESTATIONAL HORMONES

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2.G.2.6 JUVENILE HORMONES

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2.G.5 PITUITARY-ADRENAL SYSTEM

2.G OTHER ENDOCRINES AND RELATED TERMS

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2.G.6 SECRETORY RATE

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1-14C-ACETATE

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ACIDOSIS, METABOLIC

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ACTH

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ADRENOCORTICOTROPIN

ADRENERGIC AGONIST

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ADRENOCORTICOTROPIC HORMONE

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FLUORESCENCE HISTOCHEMICAL OBSERVATIONS ON THE INTRINSIC ADRENERGIC INNERVATION AND MONOAMINE-CONTAINING CELLS OF THE FELINE PANCREAS, WITH SPECIAL REFERENCE TO THE TERMINAL MAIN PANCREATIC DUCT OF WIRSUNG. Kyosola K Histochemistry 56: 79-92, 2 Jun 78 (Eng) DL/78OCT412

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Diabetes Literature—Keyword Index

ADRENOCORTICOTROPIN

ADULT-ONSET

FOREARM HEMODYNAMICS AND RESPONSES TO EXERCISE IN MIDDLE-AGED ADULT-ONSET DIABETIC PATIENTS. Katz MA, Janjan N *Diabetes* 27: 726-31, Jul 78 (Eng) DL/78OCT367

ADULT-ONSET DIABETES

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AEROBIC

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AETIOPATHOGENESIS

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AFRICAN

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AGE

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ALPHA CELL

IMMUNOREACTIVITY OF THE ENDOCRINE PANCREAS. EVIDENCE FOR THE PRESENCE OF CHOLECYSTOKININ- PANCREOZYMIN WITHIN THE A-CELL. Grube

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AMP

SEE ADENOSINE MONOPHOSPHATE

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ANEURYSM

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ANGINA

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ANOMALY

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ANOXIA

THE EFFECT OF AEROBIC AND ANOXIC PERFUSION ON PROTEIN SYNTHESIS IN CARDIAC ARREST. Schreiber SS, Hearse DJ, Oratz M, Rothschild MA *Recent Adv Stud Cardiac Struct Metab* 12: 61-7, 26-29 May 76 (Eng) *DL/78OCT197

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ATHEROSCLEROTIC LESION

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ATP

SEE ADENOSINE TRIPHOSPHATE

ATPASE

SEE ADENOSINE TRIPHOSPHATASE

ATRIUM

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BYPASS, CARDIOPULMONARY

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CALORIE

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CARBOHYDRATE TOLERANCE

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CARBON MONOXIDE

GLUCOSE CATABOLISM FOLLOWING CARBON MONOXIDE OR HYPOXIC HYPOXIA EXPOSURE. Winston JM, Roberts RJ *Biochem Pharmacol* 27: 377-80, 1 Feb 78 (Eng) *DL/78OCT273

CARBOXYACRYLAMIDINE

LIPOLYTIC ACTIVITY OF CIS-BETA-CARBOXYACRYLAMIDINE: STUDIES IN VIVO AND IN VITRO. Kupiecki FP *Biochem Pharmacol* 27: 279-84, 1 Feb 78 (Eng) *DL/78OCT272

CARBOXYLASE, PYRUVATE

THE CLINICAL AND BIOCHEMICAL IMPLICATIONS OF PYRUVATE CARBOXYLASE DEFICIENCY. DeVivo DC, Haymond MW, Leckie MP, Bussman YL, McDougal DB Jr, Pagliara AS *J Clin Endocrinol Metab* 45: 1281-96, Dec 77 (Eng) *DL/78OCT69

CARCINOMA

ROLE OF PYRUVATE CARBOXYLASE IN FATTY ACID SYNTHESIS: ALTERATIONS DURING PREADIPOCYTE DIFFERENTIATION. Mackall JC, Lane MD *Biochem Biophys Res Commun* 79: 720-5, 7 Dec 77 (Eng) *DL/78OCT268

CARCINOMA

TREATMENT OF ORAL ESTRAMUSTINE PHOSPHATE (ESTRACYT) IN PROSTATIC CARCINOMA: INFLUENCES ON LIPID AND CARBOHYDRATE METABOLISM. Gustafson A, Persson B, Tiselis LE, Wiklund O, Ohlson R *Invest Urol* 15: 220-4, Nov 77 (Eng) *DL/78OCT160

CARDIAC

SUBCELLULAR LOCALIZATION OF CARDIAC ADENYLATE CYCLASE: SARCOLEMMAL OR SARCOPLASMIC RETICULUM Jones LR, Besch HR Jr, Watanabe AM *Recent Adv Stud Cardiac Struct Metab* 11: 227-34, 26-29 May 76 (Eng) *DL/78OCT164

EFFECT OF PROTEIN KINASE MODULATOR ON CAMP-DEPENDENT PROTEIN KINASE-CATALYZED PHOSPHORYLATION OF PHOSPHOLAMBAN AND STIMULATION OF CALCIUM TRANSPORT IN CARDIAC SARCOPLASMIC RETICULUM. Ohmori F, Tada M, Kinoshita N, Matsuo H, Sakakibara H *Recent Adv Stud Cardiac Struct Metab* 11: 279-84, 26-29 May 76 (Eng) *DL/78OCT167

MEMBRANE CALCIUM CURRENT IN CARDIAC EXCITATION: EFFECTS OF ATP AND RELATED SUBSTANCES AND SODIUM PUMP ON BULLFROG ATRIUM. Goto M, Yatani A, Tsuda Y *Recent Adv Stud Cardiac Struct Metab* 11: 37-44, 26-29 May 76 (Eng) *DL/78OCT171

THYROID HORMONE-INDUCED SUPERSENSITIVITY TO THE CARDIAC PHOSPHORYLASE-ACTIVATING EFFECT OF ADRENERGIC AMINES. McNeill JH *Recent Adv Stud Cardiac Struct Metab* 11: 413-8, 26-29 May 76 (Eng) *DL/78OCT174

[THE HEART AND DIABETES. PROBLEMS POSED BY THE USE OF CARDIO-VASCULAR DRUGS AND THERAPEUTIC ERRORS TO BE AVOIDED IN DIABETIC CARDIAC PATIENTS] Grand A *Coeur Med Interne* 17: 259-70, Apr-Jun 78 (Fre) [83 ref.] DL/78OCT316

CARDIAC DEATH IN DIABETES [EDITORIAL] Anonymous *Lancet* 1: 1241-2, 10 Jun 78 (Eng) DL/78OCT480

CARDIAC ARREST

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MYOCARDIAL PROTECTION DURING ISCHEMIC CARDIAC ARREST. POSSIBLE DELETERIOUS EFFECTS OF GLUCOSE AND MANNITOL IN CORONARY INFUSATES. Hearse DJ, Stewart DA, Braimbridge MV *J Thorac Cardiovasc Surg* 76: 16-23, Jul 78 (Eng) DL/78OCT472

CARDIAC CELL

EFFECT OF ENVIRONMENTAL FACTORS AND TISSUE CULTURE METHODOLOGY IN PRODUCING AND STUDYING CULTURED CARDIAC CELLS. Padieu P, Frelin C, Pinson F, Charbonne F, Athias P *Recent Adv Stud Cardiac Struct Metab* 12: 609-20, 26-29 May 76 (Eng) *DL/78OCT196

CARDIAC CONTRACTION

SODIUM-CALCIUM EXCHANGE IN REGULATION OF CARDIAC CONTRACTION. Horackova M, Vassort G *Recent Adv Stud Cardiac Struct Metab* 11: 137-41, 26-29 May 76 (Eng) *DL/78OCT163

CARDIAC HYPERTROPHY

THE PATHWAYS OF PROTEIN SYNTHESIS AND DEGRADATION IN NORMAL HEART AND DURING DEVELOPMENT AND REGRESSION OF CARDIAC HYPERTROPHY. Sims JM, Patzer B, Kumudavalli-Reddy M, Martin AF, Rabinowitz M, Zak R *Recent Adv Stud Cardiac Struct Metab* 12: 19-28, 26-29 May 76 (Eng) *DL/78OCT185

CARDIAC MUSCLE

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FREQUENCY-DEPENDENT CHANGES IN THE ELECTROMECHANICAL AND (NA⁺, K⁺)-ATPASE ACTIVITY OF CARDIAC MUSCLE. Prasad K, Singal PK, Khatter JC *Recent Adv Stud Cardiac Struct Metab* 11: 121-30, 26-29 May 76 (Eng) *DL/78OCT162

EFFECT OF ACETALDEHYDE ON FUNCTIONING OF CARDIAC MUSCLE AT THE ULTRASTRUCTURAL LEVEL. Nayler WG, Fassold E *Recent Adv Stud Cardiac Struct Metab* 11: 489-94, 26-29 May 76 (Eng) *DL/78OCT177

CONTROL OF ENERGY PRODUCTION IN CARDIAC MUSCLE: EFFECTS OF ISCHEMIA IN ACIDOSIS. Williamson JR, Steenbergen C, Delecuw G, Barlow C *Recent Adv Stud Cardiac Struct Metab* 11: 521-31, 26-29 May 76 (Eng) *DL/78OCT180

CARDIAC MYOCYTE

AUTOPHAGY IN CARDIAC MYOCYTES. Sybers HD, Ingwall J, DeLuca M *Recent Adv Stud Cardiac Struct Metab* 12: 453-63, 26-29 May 76 (Eng) *DL/78OCT190

CARDIAC NECROSIS

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CARDIAC PERFORMANCE

MYOCARDIAL FATTY ACID AND CARDIAC PERFORMANCE. Takenaka F, Takeo S *Recent Adv Stud Cardiac Struct Metab* 11: 379-84, 26-29 May 76 (Eng) *DL/78OCT172

CARDIAC SARCOLEMMAL

ISOLATION AND ENZYMATIC CHARACTERIZATION OF GUINEA PIG CARDIAC SARCOLEMMAL. St Louis PJ, Sulakhe PV *Recent Adv Stud Cardiac Struct Metab* 11: 235-40, 26-29 May 76 (Eng) *DL/78OCT165

CARDIOMYOPATHY

ADENYLATE CYCLASE, CYCLIC NUCLEOTIDE PHOSPHODIESTERASE, AND PHOSPHORYLASE ACTIVITY OF CARDIOMYOPATHIC HAMSTER HEARTS. Sulakhe SJ, Russell BL, Sulakhe PV *Recent Adv Stud Cardiac Struct Metab* 12: 359-65, 26-29 May 76 (Eng) *DL/78OCT187

CARDIOPATHY, CONGENITAL

[DIABETES AND CONGENITAL CARDIOPATHY] Perez-Trevino C, Alger C, Dominguez RM *Gac Med Mex* 113: 581-4, Dec 77 (Spa) DL/78OCT388

CARDIOPULMONARY BYPASS

[STUDIES ON PRIMING FLUID AND TRANSFUSION FOR OPEN HEART SURGERY UNDERGOING CARDIOPULMONARY BYPASS IN THE ASPECTS OF CARBOHYDRATE METABOLISM (AUTHORS TRANSL)] Shida H, Morimoto M, Inokawa K, Tsugane J, Kobayashi M *Kyobu Geka* 30: 806-10, Oct 77 (Jpn) *DL/78OCT106

CARDIOVASCULAR

ASSOCIATION OF SERUM LIPIDS AND OBESITY WITH CARDIOVASCULAR MORTALITY. Pelkonen R, Nikkila EA, Koskinen S, Penttinen K, Sarna S *Br Med J* 2: 1185-7, 5 Nov 77 (Eng) *DL/78OCT17

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CARDIOVASCULAR RISK

[FREQUENCY OF CARDIOVASCULAR RISK FACTORS IN RENAL TRANSPLANT PATIENTS (AUTHORS TRANSL)] Zazgornik J, Balcke P, Schmidt P, Kopsa H *Wien Klin Wochenschr* 90: 466-8, 23 Jun 78 (Ger) DL/78OCT633

CARE

PERIOPERATIVE CARE: PREOPERATIVE CARE. Burn JM *Br J Hosp Med* 19: 425-32, May 78 (Eng) DL/78OCT294

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[RESULTS OF SCREENING FOR DIABETES WITHIN THE HEALTH-CARE PROGRAM OF VIENNA (AUTHORS TRANSL)] Gergely T, Gabl F, Dorda W, Schnack H, Junker E, Bayer PM *Wien Klin Wochenschr* 90: 452-6, 23 Jun 78 (Ger) DL/78OCT631

CARIES

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CARRIER

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CASTRATION

INHIBITION BY PROLACTIN OF POST-CASTRATION RISE IN LH. Grandison L, Hodson C, Chen HT, Advis J, Simpkins J, Meites J *Neuroen-*

Diabetes Literature—Keyword Index

CELL, HEART

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CATABOLISM, GLUCOSE

GLUCOSE CATABOLISM FOLLOWING CARBON MONOXIDE OR HYPOXIC HYPOXIA EXPOSURE. Winston JM, Roberts RJ *Biochem Pharmacol* 27: 377-80, 1 Feb 78 (Eng)
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CATARACT, DIABETIC

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CATARACT FORMATION

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CATECHOL

EFFECT OF CATECHOL-O-METHYL-TRANSFERASE (COMT) INHIBITION ON THE VASCULAR AND METABOLIC RESPONSES TO NORADRENALINE, ISOPRENALINE AND SYMPATHETIC NERVE STIMULATION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Belfrage E, Fredholm BB, Rosell S, Naunyn-Schmiedeberg *Arch Pharmacol* 300: 11-7, 25 Oct 77 (Eng) *DL/78OCT141

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CATHEPSIN B

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CATHETER

THE USE OF RECIPROCATING PERITONEAL DIALYSIS WITH A SUBCUTANEOUS PERITONEAL CATHETER IN END-STAGE

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CATION

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CELL CULTURE

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CELL, HEART

GENERATION OF PROTONS BY METABOLIC PROCESSES IN HEART CELLS. Gevers W J

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CHILDHOOD DIABETES

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CHLORPROPAMIDE

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CHOLECYSTECTOMY

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CHOLECYSTOKININ

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CHOLESTEROL

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CHOLESTEROL, DIETARY

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CHOLESTEROL METABOLISM

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CHOLESTEROL, PLASMA

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CHOLESTEROL, SERUM

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HYPOCHOLESTEROLEMIC AGENTS-VI. SERUM CHOLESTEROL LOWERING ACTIVITY OF BETA-HYDROXY-BETA-METHYLGLUTARYL COENZYME A REDUCTASE INHIBITORS IN RATS. Guyer KE, Boots SG, Boots MR *Biochem Pharmacol* 26: 2449-50, 15 Dec 77 (Eng) *DL/78OCT270

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CHOLINERGIC

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CHROMIUM

RELATIVE CHROMIUM RESPONSE AS AN INDICATOR OF CHROMIUM STATUS. Liu VJ, Morris JS *Am J Clin Nutr* 31: 972-6, Jun 78 (Eng) DL/78OCT669

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CIMETIDINE

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CIRRHOSIS

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- EFFECT OF INTRAVENOUS INFUSION OF GLUCOSE AND/OR FRUCTOSE ON THE COMPOSITION OF BLOOD PLASMA AND THE CLINICAL RESPONSE OF THE CALF. Fayet JC, Renouf C, Michel MC, Overwater J *Ann Rech Vet* 8: 171-9, 1977 (Eng) *DL/78OCT249
- SIMILARITY OF CLINICAL AND LABORATORY RESULTS OBTAINED WITH MICROPOROUS TEFLON MEMBRANE OXYGENATOR AND BUBBLE-FILM HYBRID OXYGENATOR. Williams DR, Tyers GF, Williams EH, Kurusz M, Shaffer CW, Pierce WS, Waldhausen JA *Ann Thorac Surg* 25: 30-5, Jan 78 (Eng) *DL/78OCT250
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CORTEX, KIDNEY

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SEE PANCREATECTOMY

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FAT CELL

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FAT DIET

FAT DIET

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FAT, LOW

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FEEDING

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Metab 12: 271-7, 26-29 May 76 (Eng) *DL/78OCT186

FREE FATTY ACID, PLASMA

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FSH

SEE FOLLICLE STIMULATING HORMONE

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GALACTOSE TRANSPORT

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GLUCOSE, BLOOD

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A STUDY OF THE RELIABILITY OF THE EYETONE AND REFLECTANCE METER IN INSTANT BLOOD GLUCOSE DETERMINATIONS. Mimouni M, Galatzer A, Madanes L,

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EFFECT OF CALCITONIN ON SERUM GLUCOSE CONCENTRATION IN RATS. Yamaguchi M, Yamamoto T *Chem Pharm Bull (Tokyo)* 25: 2189-94, Sep 77 (Eng) *DL/78OCT26

GLUCOSE DETERMINATION

ENZYME THERMISTOR DETERMINATION OF GLUCOSE IN SERUM USING IMMOBILIZED GLUCOSE OXIDASE. Danielsson B, Gadd K, Mattiasson B, Mosbach K *Clin Chim Acta* 81: 163-75, 1 Dec 77 (Eng) *DL/78OCT29

A STUDY OF THE RELIABILITY OF THE EYETONE AND REFLECTANCE METER IN INSTANT BLOOD GLUCOSE DETERMINATIONS. Mimouni M, Galatzer A, Madanes L, Lew E, Doron M, Laron Z *Acta Paediatr Belg* 31: 50-3, Jan-Mar 78 (Eng) DL/78OCT652

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GLUCOSE, HYPERTONIC

METABOLIC EFFECTS OF CONSTANT HYPERTONIC GLUCOSE INFUSION IN WELL-OXYGENATED FETUSES. Robillard JE, Sessions C, Kennedy RL, Smith FG Jr *Am J Obstet Gynecol* 130: 199-203, 15 Jan 78 (Eng) *DL/78OCT243

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GLUCOSE INFUSION

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GLUCOSE, INTRAVENOUS

SOMATOSTATIN-LIKE IMMUNOREACTIVITY IN RAT BLOOD. CHARACTERIZATION, REGIONAL DIFFERENCES, AND RESPONSES TO ORAL AND INTRAVENOUS GLUCOSE. Berelowitz M, Kronheim S, Pimstone B, Shapiro B *J Clin Invest* 61: 1410-4, May 78 (Eng) DL/78OCT426

GLUCOSE LOAD

THE EFFECT OF GLUCOSE LOADING ON URINARY EXCRETION OF CHROMIUM IN NOR-

GLUCOSE METABOLISM

MAL ADULTS, IN INDIVIDUALS FROM DIABETIC FAMILIES AND IN DIABETICS. Gurson CT, Saner G *Am J Clin Nutr* 31: 1158-61, Jul 78 (Eng) DL/78OCT670

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STUDIES OF FATTY LIVER AND KIDNEY SYNDROME IN CHICKENS: DYNAMICS OF GLUCOSE METABOLISM. Balnave D, Wolfenden J, Ball FM, Cumming RB, Leng RA *Br J Nutr* 38: 329-34, Nov 77 (Eng) *DL/78OCT3

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GLUCOSE, ORAL

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GLUCOSE OXIDASE

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GLUCOSE, PLASMA

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GLUCOSE, SERUM

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GLUCOSE TOLERANCE, ORAL

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SUCROSE MALABSORPTION IN MAN AFTER INGESTION OF ALPHA-GLUCOSIDASE INHIBITOR. Caspary WF *Lancet* 1: 1231-3, 10 Jun 78 (Eng) DL/78OCT479

GLUTAMINE

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GLUTETHIMIDE

[UTILIZATION OF THE PERFUSION OF SURVIVING ORGANS IN TOXICOLOGICAL ANALYSIS. PREPARATION OF TOLBUTAMIDE, GLUTETHIMIDE AND CYCLOBARBITAL METABOLITES UTILIZING THE PERFUSION OF THE SURVIVING RAT LIVER]

Diabetes Literature—Keyword Index

GOLGI APPARATUS

GLUCOSE LEVELS AND LIVER AND MUSCLE GLYCOGEN SYNTHESIS IN THE RAT. Vrana A, Fabry P, Kazdova L, Zvolankova K *Nutr Metab* 22: 313-20, 1978 (Eng) DL/78OCT540

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GLYCOSYLATION

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GOLGI APPARATUS

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GLYCOGEN METABOLISM

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GLYCOGEN, MUSCLE

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GLYCOGEN PHOSPHORYLASE

BETA ADRENERGIC REGULATION OF GLYCOGEN PHOSPHORYLASE ACTIVITY AND ADENOSINE CYCLIC 3', 5'-MONOPHOSPHATE ACCUMULATION IN CONTROL AND DESENSITIZED C-6 ASTROCYTOMA CELLS. Drummond AH, Baguley BC, Staehelin M *Mol Pharmacol* 13: 1159-69, Nov 77 (Eng) *DL/78OCT131

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GLYCOGEN SYNTHESIS

LIVER GLYCOGEN SYNTHESIS AND GLUCOSE TOLERANCE IN RATS ADAPTED TO DIETS WITH A HIGH PROPORTION OF FRUCTOSE OR GLUCOSE. Vrana A, Fabry P, Kazdova L *Nutr Metab* 22: 262-8, 1978 (Eng) DL/78OCT539

EFFECT OF THE TYPE AND PROPORTION OF DIETARY CARBOHYDRATE ON SERUM

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GLYCAN

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GLYCEROL

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GLYCEROLIPID

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GRAFT, PANCREATIC

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GTP

SEE GUANOSINE TRIPHOSPHATE

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HB

SEE HEMOGLOBIN

HCG

SEE HUMAN CHORIONIC GONADOTROPIN

HDL

SEE HIGH DENSITY LIPOPROTEIN

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PREVALENCE OF CORONARY HEART DISEASE IN PAKISTANI PATIENTS SUFFERING

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HLA

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HMP

SEE HEXOSE MONOPHOSPHATE SHUNT

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HYPEROSMOLAR COMA

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HYPERPLASIA

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HYPERTENSION

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HYPOCHOLESTEROLEMIA

HYPOCHOLESTEROLEMIC AGENTS--VI. SERUM CHOLESTEROL LOWERING ACTIVITY OF BETA-HYDROXY-BETA-METHYLGLUTARYL COENZYME A REDUCTASE INHIBITORS IN RATS. Guyer KE, Boots SG, Boots MR Biochem Pharmacol 26: 2449-50, 15 Dec 77 (Eng) *DL/78OCT270

HYPOGLYCEMIA

HYPOGLYCEMIC ATTACK: CAUSES AND TREATMENT. Chue PW Dent Surv 52: Jan 76 (Eng) DL/78OCT350

HYPOTHALAMUS

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HYPOLIPIDEMIC

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HYPONATREMIA

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HYPOPHYSECTOMY

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HYPOTHALAMUS

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Diabetes Literature—Keyword Index

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HYPOXIA

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HYPOXIC HYPOXIA

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ILEAL BYPASS

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IMMUNITY

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IMMUNITY, CELLULAR

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IMMUNIZED

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IMMUNOCYTOCHEMISTRY

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IMMUNOREACTIVE GLUCAGON

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IN UTERO

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INFANT

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INFANT, LOW BIRTH WEIGHT

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INFANT, NEWBORN

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INFUSION, INTRAVENOUS

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INJURY

INJURY

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INNERVATION

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INOTROPIC

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INSULIN

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Diabetes Literature—Keyword Index

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INSULIN BINDING

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Diabetes Literature—Keyword Index

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INTERMEDIATE, GLYCOLYTIC

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INTRAPERITONEAL

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IRI

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SUSTAINED EFFECT OF GLUCOSE-INSULIN-POTASSIUM ON MYOCARDIAL PERFORMANCE DURING REGIONAL ISCHEMIA. ROLE OF FREE FATTY ACID AND OSMOLALITY. Ahmed SS, Lee CH, Oldewurtel HA, Regan TJ *J Clin Invest* 61: 1123-35, May 78 (Eng) DL/78OCT422

ISCHEMIA, MYOCARDIAL

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INSULIN THERAPY FOR DEPRESSED MYOCARDIAL CONTRACTILITY AFTER PROLONGED ISCHEMIA. Muller JE, Mochizuki S, Koster JK Jr, Collins JJ Jr, Cohn LH, Neely JR *Am J Cardiol* 41: 1215-21, Jun 78 (Eng) DL/78OCT667

ISCHEMIA, MYOCARDIAL

PRESERVATION OF MYOCARDIAL MEMBRANE INTEGRITY IN THE EARLY PHASE OF ACUTE MYOCARDIAL ISCHEMIA. Okuda M, Lefler AM *Recent Adv Stud Cardiac Struct Metab* 12: 307-11, 26-29 May 76 (Eng) *DL/78OCT193

ISCHEMIC HEART

ARRHYTHMOGENIC EFFECTS OF ACUTE FREE FATTY ACID MOBILIZATION ON ISCHEMIC HEART. Yamazaki N, Suzuki Y, Kamikawa T, Ogawa K, Mizutani K, Kakizawa N, Yamamoto M *Recent Adv Stud Cardiac Struct Metab* 12: 271-7, 26-29 May 76 (Eng) *DL/78OCT186

ISCHEMIC MYOCARDIUM

ABNORMAL MITOCHONDRIAL OXIDATIVE PHOSPHORYLATION OF ISCHEMIC MYOCARDIUM REVERSED BY CA²⁺-CHELATING AGENTS. Peng CF, Kane JJ, Murphy ML, Straub KD *J Mol Cell Cardiol* 9: 897-908, Nov 77 (Eng) *DL/78OCT102

ISLET

[LOCALIZATION OF LABELLED CELLS IN THE ISLETS, ACINI AND PERIINSULAR ZONE OF THE PANCREAS OF MICE UNDERGOING RESECTION] Krasnov VP *Bull Eksp Biol Med* 85: 594-8, May 78 (Eng) DL/78OCT291

PHOSPHATE METABOLISM AND GLUCOSE-INITIATED EFFLUX OF PHOSPHATE IONS IN ISLETS OF FETAL PANCREAS. Asplund K, Freinkel N *Diabetes* 27: 611-9, Jun 78 (Eng) DL/78OCT351

PANCREATIC ISLET ISOTRANSPLANTATION. EFFECTS OF AGE AND ORGAN CULTURE OF DONOR ISLETS ON REVERSAL OF DIABETES IN RATS. Selawry H, Harrison J, Patipa M, Mintz DH *Diabetes* 27: 623-31, Jun 78 (Eng) DL/78OCT353

RELATION OF INSULIN RELEASE TO CYCLIC AMP CONTENT IN RAT PANCREATIC ISLETS MAINTAINED IN TISSUE CULTURE. Rabinovitch A, Cuendet GS, Sharp GW, Renold AE, Mintz DH *Diabetes* 27: 766-73, Jul 78 (Eng) DL/78OCT373

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SYNERGISTIC EFFECT OF DONOR-SPECIFIC SOLUBLE MEMBRANE ANTIGEN INJECTION AND ANTITHYMOCYTE SERUM ADMINISTRATION ON THE SURVIVAL OF ISLET ALLOGRAFTS IN RATS. Viallettes B, Sutherland DE, Payne DE, Matas AJ, Najarian JS *Transplantation* 25: 336-8, Jun 78 (Eng) DL/78OCT612

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ISLET CELL TUMOR

REMISSION OF HYPOGLYCEMIA AFTER PARTIAL RESECTION OF A METASTATIC ISLET CELL TUMOR. Murray FT, Nakhooda AF, Rae P, Langer B, Ambus U, Marliss EB *Am J Surg* 135: 864-52, Jun 78 (Eng) DL/78OCT683

ISLETS OF LANGERHANS

SELECTIVE CALCIFICATION OF PANCREATIC ISLETS OF LANGERHANS. AN UNUSUAL ASSOCIATION WITH HYPERCALCEMIA AND DIABETES MELLITUS. Cotelingam JD, Hellstrom R *Diabetes* 27: 620-4, Jun 78 (Eng) DL/78OCT352

ISOELECTRIC FOCUSING

DOSAGE OF HEMOGLOBIN A1C BY ISOELECTROFOCUSING. Schoos R, Schoos-Barbette S, Lambotte C *Clin Chim Acta* 86: 61-5, 16 May 78 (Eng) DL/78OCT311

ISOENZYME

[EFFECT OF CA²⁺ IONS ON THE PYRUVATE KINASE ISOENZYMES FROM RABBIT KIDNEY CORTEX] Ilin VS, Kozhevnikova KA *Vopr Med Khim* 23: 653-7, Sep-Oct 77 (Rus) *DL/78OCT217

ISOIMMUNIZATION

AMNIOTIC FLUID INSULIN AND GLUCAGON IN NORMAL PREGNANCY AND PREGNANCY COMPLICATED BY RHESUS ISOIMMUNIZATION [LETTER] Perlman M, Gordin M *Br J Obstet Gynaecol* 85: 479, Jun 78 (Eng) DL/78OCT284

ISOPRENALINE

[FATTY ACID RELEASE FROM HUMAN ADIPOSE TISSUE IN RELATION TO OBESITY - EFFECT OF ISOPRENALINE (AUTHORS TRANSL.)] Rath R, Wenkeova J *Cesk Gastroenterol Vyz* 31: 370-6, Sep 77 (Cze) *DL/78OCT24

EFFECT OF CATECHOL-O-METHYL-TRANSFERASE (COMT) INHIBITION ON THE VASCULAR AND METABOLIC RESPONSES TO NORADRENALINE, ISOPRENALINE AND SYMPATHETIC NERVE STIMULATION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Belfrage E, Fredholm BB, Rosell S *Naunyn Schmiedeberg Arch Pharmacol* 300: 11-7, 25 Oct 77 (Eng) *DL/78OCT141

ISOPROTERENOL

MECHANISM OF CHOLINERGIC ANTAGONISM OF THE EFFECTS OF ISOPROTERENOL ON HEARTS FROM HYPERTHYROID RATS. Watanabe AM,

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ISOTRANSPLANTATION

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JAPAN

HLA BW54 AND B5 IN JAPANESE DIABETICS WITH JUVENILE-ONSET AND INSULIN-DEPENDENCY (WITH SPECIAL REFERENCE TO THE FAMILY HISTORY). Kawa A, Nakazawa M, Kono Y, Sakaguchi S, Nakamura S, Kanehisa T *Experientia* 34: 669-70, 15 May 78 (Eng) DL/78OCT342

JEJUNUM

UNSTIRRED LAYER AND KINETICS OF ELECTROGENIC GLUCOSE ABSORPTION IN THE HUMAN JEJUNUM IN SITU. Read NW, Barber DC, Levin RJ, Holdsworth CD *Gut* 18: 865-76, Nov 77 (Eng) *DL/78OCT54

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OCCURRENCE OF INDIVIDUAL TRANS-ISOMERIC FATTY ACIDS IN HUMAN MYOCARDIUM, JEJUNUM AND AORTA IN RELATION TO DIFFERENT DEGREES OF ATHEROSCLEROSIS. Heckers H, Korner M, Tuschen TW, Melcher FW *Atherosclerosis* 28: 389-98, Dec 77 (Eng) *DL/78OCT277

JUVENILE DIABETES

C-PEPTIDE SECRETION DURING THE REMISSION PHASE OF JUVENILE DIABETES. Heinze E, Beischer W, Keller L, Winkler G, Teller WM, Pfeiffer EF *Diabetes* 27: 670-6, Jun 78 (Eng) DL/78OCT360

PSYCHO-SOCIAL ASPECTS OF THE CARE OF THE JUVENILE DIABETIC [EDITORIAL] Vaishnav S *Indian Pediatr* 14: 869-70, Nov 77 (Eng) DL/78OCT405

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[FAMILIAL INCIDENCE OF JUVENILE DIABETES MELLITUS AND PRIMARY OPTIC ATROPHY (AUTHORS TRANSL.)] Vormittag W, Schwab F, Ferlitsch A *Wien Klin Wochenschr* 90: 445-8, 23 Jun 78 (Ger) DL/78OCT629

INTEREST OF BLOOD GLUCOSE VALUES DETERMINED AT HOME IN JUVENILE DIABETES. Ernould C, Graff MP *Acta Paediatr Belg* 31: 53-6, Jan-Mar 78 (Eng) DL/78OCT653

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JUVENILE-ONSET

HLA BW54 AND B5 IN JAPANESE DIABETICS WITH JUVENILE-ONSET AND INSULIN-DEPENDENCY (WITH SPECIAL REFERENCE

Diabetes Literature—Keyword Index

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KETOACIDOSIS, DIABETIC

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PITUITARY HORMONES IN DIABETIC KETOACIDOSIS [LETTER] Bernstein RM, Colquhoun MC *Lancet* 1: 1309, 17 Jun 78 (Eng) DL/78OCT483

PITUITARY HORMONES IN DIABETIC KETOACIDOSIS [LETTER] Campbell IA, Munro JF, Duncan LJ *Lancet* 2: 206-7, 22 Jul 78 (Eng) DL/78OCT494

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KETOGENESIS

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KETONE BODY

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KETOSIS, DIABETIC

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KETOTIC DIABETES

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KIDNEY

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KIDNEY CORTEX

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[EFFECT OF STARVATION AND DIABETES ON THE ACTIVITY OF GLUCOSE-6-PHOSPHATE AND 6-PHOSPHOGLUCONATE DEHYDROGENASES AND ON THE FREE FATTY ACID CONTENT OF RAT KIDNEY CORTEX AND MEDULLA] Fomina MP *Vopr Med Khim* 377-82, May-Jun 78 (Rus) DL/78OCT624

KIDNEY FAILURE

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KLEBSIELLA AEROGENES

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Diabetes Literature—Keyword Index

KLEBSIELLA AEROGENES

LABELING

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LABOR

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LABORATORY

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LATENT DIABETES

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LCAT

SEE LECITHIN ACYL TRANSFERASE

LECITHIN ACYLTRANSFERASE

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LH

SEE LUTEINIZING HORMONE

LHRH

SEE LUTEINIZING HORMONE RELEASING HORMONE

LIPASE ACTIVITY

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Diabetes Literature—Keyword Index

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Diabetes Literature—Keyword Index

METABOLISM, CHOLESTEROL

METABOLISM, ELECTROLYTE

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METABOLISM, FATTY ACID

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METABOLISM, PROTEIN

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MITOCHONDRIAL MEMBRANE

MITOCHONDRIA

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Diabetes Literature—Keyword Index

MODEL

MODEL

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MONITORING

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MONKEY, RHESUS

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MONOAMINE

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MUTANT

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MUTATION

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MYOCARDIAL CELL

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MYOCARDIUM

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Diabetes Literature—Keyword Index

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MYOCYTE

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NALOXONE

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NEEDLE

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NEONATAL

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NEUROLEPTICA

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ODONTO STOMATOLOGY

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SEE ORAL GLUCOSE TOLERANCE TEST

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SEE PLACENTAL LACTOGEN HORMONE

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PREGNANCY, HIGH RISK

[PLACENTAL (HPL, HSAP, CAP) AND FETAL (ESTRIOL IN URINE AND BLOOD) PARAMETERS IN HIGH RISK PREGNANCIES] Battaglia GB, Morresi G, Coronella L, Messeri G, Valenza T *Quad Scavo Diagn* 13: 434-48, Dec 77 (Ita) DL/78OCT570

PREGNANCY, LATE

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PRURITUS

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RENAL TRANSPLANTATION

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RISK FACTOR

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SHOCK

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SIALIC ACID

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SIMULATION

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SKELETAL MUSCLE

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SKELETAL MUSCLE

SKIN

[EXPERIMENTAL CLINICAL STUDY ON THE EFFECT OF ETHYL LACTATE ON LIPOLYTIC ACTIVITY OF THE SKIN AND CUTANEOUS ADIPOSE TISSUE] Zalem EA, Koroleva NB *Vestn Dermatol Venerol* 75-8, Oct 77 (Rus) *DL/78OCT221

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SLEEP

NOCTURNAL ULCER PAIN ASSOCIATED WITH SLOW-WAVE SLEEP. Tormey WP, Davis WG, Darragh AS *Lancet* 1: 1340-1, 24 Jun 78 (Eng) DL/78OCT484

SMALL INTESTINE

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HIGH-AFFINITY PHLORIZIN BINDING TO BRUSH BORDER MEMBRANES FROM SMALL INTESTINE: IDENTITY WITH (A PART OF) THE GLUCOSE TRANSPORT SYSTEM, DEPENDENCE ON NA ⁺ GRADIENT, PARTIAL PURIFICATION. Tannenbaum C, Toggengruber G, Kessler M, Rothstein A, Semenza G *J Supramol Struct* 6: 519-33, 1977 (Eng) *DL/78OCT117

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SMOKING

SMOKING AND DIABETIC RETINOPATHY [LETTER] West KM, Stober JA *Lancet* 2: 49-50, 1 Jul 78 (Eng) DL/78OCT488

SOCIAL

PSYCHO-SOCIAL ASPECTS OF THE CARE OF THE JUVENILE DIABETIC [EDITORIAL] Vaishnav S *Indian Pediatr* 14: 869-70, Nov 77 (Eng) DL/78OCT405

SODIUM

A MECHANISM FOR NA/CA TRANSPORT. Mullins LJ *J Gen Physiol* 70: 681-95, Dec 77 (Eng) *DL/78OCT89

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SODIUM-CALCIUM EXCHANGE IN REGULATION OF CARDIAC CONTRACTION. Horackova M, Vassort G *Recent Adv Stud Cardiac Struct Metab* 11: 137-41, 26-29 May 76 (Eng) *DL/78OCT163

EFFECTS OF ETHANOL ON SODIUM, 3-O-METHYL GLUCOSE, AND L-ALANINE TRANSPORT IN THE JEJUNUM. Kuo YJ, Shanbour LL *Am J Dig Dis* 23: 51-6, Jan 78 (Eng) *DL/78OCT242

EFFECT OF CENTRALLY ADMINISTERED GLUCAGON ON URINARY SODIUM AND POTASSIUM CONCENTRATION IN DOGS. Agarwala GC, Bapat V, Misra V, Singh KN *Indian J Physiol Pharmacol* 21: 353-8, Oct-Dec 77 (Eng) DL/78OCT404

SODIUM ION

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SODIUM NITROPRUSSIDE

LACTIC ACIDOSIS COMPLICATING SODIUM NITROPRUSSIDE THERAPY. Humphrey SH, Nash DA Jr *Ann Intern Med* 88: 58-9, Jan 78 (Eng) *DL/78OCT248

SODIUM PUMP

MEMBRANE CALCIUM CURRENT IN CARDIAC EXCITATION: EFFECTS OF ATP AND RELATED SUBSTANCES AND SODIUM PUMP ON BULLFROG ATRIUM. Goto M, Yatani A, Tsuda Y *Recent Adv Stud Cardiac Struct Metab* 11: 37-44, 26-29 May 76 (Eng) *DL/78OCT171

SODIUM SALICYLATE

RESTORATION OF THE ACUTE INSULIN RESPONSE BY SODIUM SALICYLATE. A GLUCOSE DOSE-RELATED PHENOMENON. Chen M, Robertson RP *Diabetes* 27: 750-6, Jun 78 (Eng) DL/78OCT371

SOLUBILIZATION

PROPERTIES OF ADENYLATE CYCLASE SOLUBILIZED FROM RAT ADRENAL MEMBRANES: EFFECTS OF ACTH AND OTHER STIMULATORS ON SOLUBILIZATION. Mahaffee DD, Ontjes DA *J Cyclic Nucleotide Res* 3: 325-34, Oct 77 (Eng) *DL/78OCT75

ADENYLATE CYCLASE ACTIVITY IN MYOCARDIUM OF SPONTANEOUSLY HYPERTENSIVE RAT: EFFECT OF ENDOGENOUS FACTORS AND SOLUBILIZATION. Bhalla RC, Sharma RV, Ashley AT *Biochem Biophys Res Commun* 82: 273-80, 15 May 78 (Eng) DL/78OCT705

SOMATOMEDIN ACTIVITY

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SOMATOSTATIN

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SOMATOSTATIN RELEASE FROM ISOLATED PERFUSED RAT STOMACH. Chiba T, Seino Y, Goto Y, Kadowaki S, Taminato T, Abe H, Kato Y, Matsukura S, Nozawa M, Imura H *Biochem Biophys Res Commun* 82: 731-7, 30 May 78 (Eng) DL/78OCT708

SOMATOSTATIN ANALOGUE

CONFORMATIONALLY RESTRICTED BICYCLIC ANALOGS OF SOMATOSTATIN. Veber DF, Holly FW, Paleveda WJ, Nutt RF, Bergstrand SJ, Torchiana M, Glitzer MS, Saperstein R, Hirschmann R *Proc Natl Acad Sci USA* 75: 2636-40, Jun 78 (Eng) DL/78OCT561

SOMATOSTATIN INHIBITION

QUANTITATION OF SOMATOSTATIN INHIBITION OF INSULIN-STIMULATED GASTRIC ACID AND PEPSIN SECRETION IN THE CAT. Hirst BH, Reed JD, Shaw B, Coy DH, Schally AV *Acta Hepatogastroenterol (Stuttg)* 25: 208-12, Jun 78 (Eng) DL/78OCT645

SOMATOTROPIC HORMONE

[RAISED GLUCAGON LEVELS OF THE BLOOD INDUCED BY ARGININE: RELATION TO BLOOD SUGAR, BLOOD INSULIN AND STH IN AGED NON-DIABETICS AND DIABETICS] Ferrero E, Casale G, Tassi G, Ciapponi A *Minerva Med* 69: 1233-9, 14 Apr 78 (Ita) DL/78OCT517

SOMATOTROPIN

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SPACE CLUSTERING

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SPARING

THE PROTEIN-SPARING EFFECT OF CARBOHYDRATE. I. NITROGEN RETENTION OF GROWING PIGS IN RELATION TO DIET. Fuller MF, Crofts RM *Br J Nutr* 38: 479-88, Nov 77 (Eng) *DL/78OCT5

SPECIES

MANNOsyl TRANSFERASES OF THE RETINA: MANNOLIPID AND COMPLEX GLYCAN BIOSYNTHESIS. II. ACTIVITY IN DIFFERENT SPECIES; SUBCELLULAR DISTRIBUTION; DURING DEVELOPMENT. Kean EL, Bruner WE *Exp Eye Res* 25: 419-26, Oct 77 (Eng) *DL/78OCT40

SOME EXPLANATIONS FOR SPECIES DIFFERENCES IN HYPERGLYCEMIC RESPONSES TO ADRENERGIC AGENTS. Ellis S *Life Sci* 22: 1229-36, 3-17 Apr 78 (Eng) [27 ref.] DL/78OCT495

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SPHINGOMYELIN

CLINICAL STUDIES ON LECITHIN/SPHINGOMYELIN RATIO. Tuimala R *Acta Obstet Gynecol Scand [Suppl]* 1-58, 1978 (Eng) DL/78OCT646

SPLANCHNIC

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SPLEEN

[IS FUNCTIONAL DEMAND A CONDITION WITHOUT WHICH THE PANCREATIC AUTO TRANSPLANT CAN NOT SURVIVE IN THE DOGS SPLEEN] Mosimann F, Mirkovitch V, Macarone-Palmieri R, Blanc D, Campiche M *Helv Chir Acta* 45: 157-9, May 78 (Fre) DL/78OCT409

SPONTANEOUS DIABETES

THE SPONTANEOUSLY DIABETIC WISTAR RAT (THE BB RAT). STUDIES PRIOR TO AND DURING DEVELOPMENT OF THE OVERT SYNDROME. Nakhlood AF, Like AA, Chappel CI, Wei CN, Marliss EB *Diabetologia* 14: 199-207, Mar 78 (Eng) DL/78OCT386

STAINING

ANTENATAL ASSESSMENT OF FETAL AGE AND MATURITY USING FETAL FAT STAINING CELLS IN AMNIOTIC FLUID. Ramzy I, Vilos GA, Desrosiers PA *Acta Cytol (Baltimore)* 22: 105-9, Mar-Apr 78 (Eng) DL/78OCT641

STARVATION

INSULIN BINDING TO MONOCYTES AND INSULIN ACTION IN HUMAN OBESITY, STARVATION, AND REFEEDING. deFronzo RA, Soman V, Sherwin RS, Hendlar R, Felig P *J Clin Invest* 62: 204-13, Jul 78 (Eng) DL/78OCT433

[EFFECT OF STARVATION AND DIABETES ON THE ACTIVITY OF GLUCOSE-6-PHOSPHATE AND 6-PHOSPHOGLUCONATE DEHYDROGENASES AND ON THE FREE FATTY ACID CONTENT OF RAT KIDNEY CORTEX AND MEDULLA] Fomina MP *Vopr Med Khim* 377-82, May-Jun 78 (Rus) DL/78OCT624

STATISTICS

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[CLINICO-STATISTICAL STUDY OF CARIES IN CHILDREN WITH DIABETES MELLITUS] Vasileva S *Stomatologia (Sofia)* 57: 22-8, Jan-Feb 75 (Bul) DL/78OCT609

STEADY STATE

GLUCOSE DISPOSAL IN LOW-BIRTH-WEIGHT INFANTS DURING STEADY-STATE HYPERGLYCEMIA: EFFECTS OF EXOGENOUS INSULIN ADMINISTRATION. Pollak A, Cowett RM, Schwartz R, Oh W *Pediatrics* 61: 546-9, Apr 78 (Eng) DL/78OCT545

STERILITY

STERILITY PROBLEMS AND THE DIABETIC [LETTER] Dankert J, Drayer NM *Lancet* 1: 1256, 10 Jun 78 (Eng) DL/78OCT481

STEROID

EFFECTS OF SEX STEROIDS ON GROWTH HORMONE PRODUCTION IN CULTURED RAT PITUITARY CELLS. Haug E, Gautvik KM *Acta Endocrinol (Kbh)* 87: 40-54, Jan 78 (Eng) *DL/78OCT232

STEROID HORMONE

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STEROID METABOLISM

STEROID METABOLISM IN THE PERFUSED HUMAN PLACENTA. I. METABOLISM OF DEHYDROEPIANDROSTERONE SULPHATE. Wolf AS, Musch KA, Speidel W, Strecker JR, Lauritzen C *Acta Endocrinol (Kbh)* 87: 181-91, Jan 78 (Eng) *DL/78OCT231

STEROL SYNTHESIS

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STH

SEE SOMATOTROPIC HORMONE

STOMACH

SOMATOSTATIN RELEASE FROM ISOLATED PERFUSED RAT STOMACH. Chiba T, Seino Y, Goto Y, Kadowaki S, Taminato T, Abe H, Kato Y, Matsukura S, Nozawa M, Imura H *Biochem Biophys Res Commun* 82: 731-7, 30 May 78 (Eng) DL/78OCT708

SUBCELLULAR LOCALIZATION

STOMACH RESECTION

[RESORPTION OF FATS AND CARBOHYDRATES FOLLOWING STOMACH RESECTION AND GASTRECTOMY] Stallkamp B, Haring R, Hahn W, Schurnbrand P, Tung LC *Langenbecks Arch Chir suppl*: 253-6, 1976 (Ger) *DL/78OCT124

STOMATOLOGY

[CONTRIBUTION TO ODONTO-STOMATOLOGY IN CASE FINDINGS OF DIABETIC RISK PATIENTS] Leger JM *Chir Dent Fr* 46: 61, 9 Jun 76 (Fre) DL/78OCT321

[THE PREDIABETIC AND STOMATOLOGY] Dambrin R *Acta Stomatol Belg* 74: 127-33, 1977 (Fre) DL/78OCT665

STORAGE

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FATTY ACID SYNTHESIS AND METABOLISM OF PHOSPHOLIPID ACYL GROUPS IN STRAIN I MOUSE FIBROBLASTS. Tsai PY, Geyer RP *Biochim Biophys Acta* 489: 381-9, 21 Dec 77 (Eng) *DL/78OCT9

HEXOKINASE AND GLUCOSE-PHOSPHOENOLPYRUVATE PHOSPHOTRANSFERASE SYNTHESIS IN KLEBSIELLA AEROGENES STRAINS GROWING IN CONTINUOUS CULTURE. Carter IS, Dean AC *Biochem J* 166: 643-6, 15 Sep 77 (Eng) *DL/78OCT262

STREPTOZOTOCIN DIABETES

PERMEABILITY OF THE BLOOD-NERVE BARRIER IN THE STREPTOZOTOCIN-DIABETIC RAT. Jakobsen J, Malmgren L, Olsson Y *Exp Neurol* 60: 277-85, Jun 78 (Eng) DL/78OCT341

STRESS

[OPPOSITE EFFECTS OF AUDIOGENIC STRESS ON THE LIVER AND ADRENAL DEHYDROGENASE OF THE HMP SHUNT] Muraca U, Manasseri L, Scarpignato C, Costa G *Farmacol [Sci]* 32: 879-88, Dec 77 (Ita) *DL/78OCT44

[IMPACT OF STRESS ON SUGAR METABOLISM] Pagano G, Cavallo-Perin P *Minerva Med* 69: 1099-105, 31 Mar 78 (Ita) DL/78OCT514

SUBCELLULAR DISTRIBUTION

MANNOsyl TRANSFERASES OF THE RETINA: MANNOLIPID AND COMPLEX GLYCAN BIOSYNTHESIS. II. ACTIVITY IN DIFFERENT SPECIES; SUBCELLULAR DISTRIBUTION; DURING DEVELOPMENT. Kean EL, Bruner WE *Exp Eye Res* 25: 419-26, Oct 77 (Eng) *DL/78OCT40

SUBCELLULAR LOCALIZATION

SUBCELLULAR LOCALIZATION OF ALPHA-MELANOCYTE-STIMULATING HORMONE IN THE RAT HYPOTHALAMUS. Barnea A, Oliver C, Porter JC *J Neurochem* 29: 619-24, Oct 77 (Eng) *DL/78OCT90

SUBCELLULAR LOCALIZATION OF CARDIAC ADENYLATE CYCLASE: SARCOLEMMAL OR SARCOPLASMIC RETICULUM Jones LR, Besch HR Jr, Watanabe AM *Recent Adv Stud*

Diabetes Literature—Keyword Index

SUBMITOCHONDRIAL PARTICLE

Cardiac Struct Metab 11: 227-34, 26-29 May 76 (Eng) *DL/78OCT164

SUBMITOCHONDRIAL PARTICLE

THE PHOSPHORYLATION POTENTIAL GENERATED BY RESPIRING BOVINE HEART SUBMITOCHONDRIAL PARTICLES. Ferguson SJ, Sorgato MC *Biochem J* 168: 299-303, 15 Nov 77 (Eng) *DL/78OCT265

SUBSTANCE P

SUBSTANCE P: LOCALIZATION IN SYNAPTIC VESICLES IN RAT CENTRAL NERVOUS SYSTEM. Cuello AC, Jessell TM, Kanazawa I, Iversen LL *J Neurochem* 29: 747-51, Oct 77 (Eng) *DL/78OCT91

SUBSTRATE

INTERRELATIONSHIP BETWEEN ENERGY METABOLISM FROM VARIOUS SUBSTRATES AND THE 2,3-BISPHOSPHOGLYCERATE BYPASS IN HUMAN ERYTHROCYTES. Brand K, Quadflieg KH *Acta Biol Med Ger* 36: 507-13, 1977 (Eng) *DL/78OCT226

2-DEOXY-D-GALACTOSE, A SUBSTRATE FOR THE GALACTOSE-TRANSPORT SYSTEM OF ESCHERICHIA COLL. Henderson PJ, Giddens RA *Biochem J* 168: 15-22, 15 Oct 77 (Eng) *DL/78OCT263

THE EFFECT OF EXOGENOUS SUBSTRATE ON HEPATIC METABOLISM AND MEMBRANE TRANSPORT DURING ENDOTOXEMIA. McDougal WS, Heimbürger S, Wilmore DW, Pruitt BA Jr *Surgery* 84: 55-61, Jul 78 (Eng) *DL/78OCT604

SUBSTRATE SPECIFICITY

ON THE KINETICS AND SUBSTRATE SPECIFICITY OF THE PYRUVATE TRANSLATOR IN RAT LIVER MITOCHONDRIA. Paradies G, Papa S *Biochim Biophys Acta* 462: 333-46, 17 Nov 77 (Eng) *DL/78OCT8

SUBSTRATE UTILIZATION

EFFECT OF HEPARIN ON THE SUBSTRATE UTILIZATION DURING PROLONGED EXERCISE. Ahlborg G, Hagenfeldt L *Scand J Clin Lab Invest* 37: 619-24, Nov 77 (Eng) *DL/78OCT203

SUCKLING

[EFFECT OF ENERGY RESTRICTION DURING LATE PREGNANCY ON PLASMA INSULIN, BLOOD GLUCOSE, BLOOD UREA AND BLOOD FREE AMINO ACIDS IN PREGNANT AND SUCKLING SHEEP] Grizard J, Tinsler M, Prugnaud J, Pion R *C R Soc Biol (Paris)* 171: 1243-53, 1977 (Fre) DL/78OCT301

SUCROSE

SUCROSE MALABSORPTION IN MAN AFTER INGESTION OF ALPHA-GLUCOSIDASE INHIBITOR. Caspary WF *Lancet* 1: 1231-3, 10 Jun 78 (Eng) DL/78OCT479

SUGAR

PHOSPHORYLATED SUGARS STIMULATE PROTEIN SYNTHESIS AND MET-TRNAF BINDING ACTIVITY IN EXTRACTS OF MAMMALIAN CELLS. Lenz JR, Chatterjee GE, Maroney PA, Baglioni C *Biochemistry* 17: 80-7, 10 Jan 78 (Eng) *DL/78OCT7

MYCOPLASMA PHOSPHOENOLPYRUVATE-DEPENDENT SUGAR PHOSPHOTRANSFERASE SYSTEM: GLUCOSE-NEGATIVE MUTANT AND REGULATION OF INTRACELLULAR CYCLIC AMP. Mugharbil U, Cirillo VP *J Bacteriol* 133: 203-9, Jan 78 (Eng) *DL/78OCT63

SUGAR, BLOOD

FASTING + POSTPRANDIAL BLOOD SUGAR STUDIES IN TREATED + UNTREATED DIABETIC PATIENTS. George KA, Augusti KT, Ramachandran M *Indian J Exp Biol* 15: 1047-9, Nov 77 (Eng) DL/78OCT402

[RAISED GLUCAGON LEVELS OF THE BLOOD INDUCED BY ARGININE: RELATION TO BLOOD SUGAR, BLOOD INSULIN AND STH IN AGED NON-DIABETICS AND DIABETICS] Ferrero E, Casale G, Tassi G, Ciapponi A *Minerva Med* 69: 1233-9, 14 Apr 78 (Ita) DL/78OCT517

SUGAR METABOLISM

[IMPACT OF STRESS ON SUGAR METABOLISM] Pagano G, Cavallo-Perin P *Minerva Med* 69: 1099-105, 31 Mar 78 (Ita) DL/78OCT514

SUGAR TRANSPORT

IS THERE A HIGH AFFINITY SITE FOR SUGAR TRANSPORT AT THE INNER FACE OF THE HUMAN RED CELL MEMBRANE. Lieb WR, Stein WD *J Theor Biol* 69: 311-9, 21 Nov 77 (Eng) *DL/78OCT118

SULFATION FACTOR

SULPHATION FACTOR (SOMATOMEDIN ACTIVITY) IN EXPERIMENTAL PROTEIN MALNUTRITION IN THE RAT. Shapiro B, Pimstone BL *J Endocrinol* 77: 233-40, May 78 (Eng) DL/78OCT448

SULFONYLUREA

THE POSITIVE INOTROPIC ACTION OF SULFONYLUREAS. A MECHANISM INDEPENDENT OF CYCLIC ADENOSINE 3,5-MONOPHOSPHATE. Linden J, Brooker G *Diabetes* 27: 694-8, Jun 78 (Eng) DL/78OCT363

INTERACTING EFFECTS OF SULFONYLUREAS AND GLUCOSE ON CYCLIC AMP METABOLISM AND INSULIN RELEASE IN PANCREATIC ISLETS OF THE RAT. Grill V, Cerasi E *J Clin Invest* 61: 1346-54, May 78 (Eng) DL/78OCT423

SURFACTANT

SURFACTANTS AND ATHEROGENESIS. Seely S *Med Hypotheses* 3: 259-62, Nov-Dec 77 (Eng) *DL/78OCT129

SURGERY

INHIBITION OF PLASMA CYCLIC AMP, GLUCOSE AND CORTISOL RESPONSE TO SURGERY BY EPIDURAL ANALGESIA. Madsen SN, Brandt MR, Engquist A, Badawi I, Khelet H *Br J Surg* 64: 669-71, Sep 77 (Eng) *DL/78OCT16

[INDICATIONS FOR VITRECTOMY. PRESENT POSSIBILITIES AND LIMITATIONS OF VITREOUS BODY SURGERY] Algvær P *Lakartidningen* 75: 2220-4, 31 May 78 (Swe) DL/78OCT473

SURGERY, OPEN HEART

[STUDIES ON PRIMING FLUID AND TRANSFUSION FOR OPEN HEART SURGERY UNDERGOING CARDIOPULMONARY BYPASS

IN THE ASPECTS OF CARBOHYDRATE METABOLISM (AUTHORS TRANSL)] Shida H, Morimoto M, Inokawa K, Tsugane J, Kobayashi M *Kyobu Geka* 30: 806-10, Oct 77 (Jpn) *DL/78OCT106

SURVIVAL

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SYMPATHETIC NERVE

EFFECT OF CATECHOL-O-METHYL-TRANSFERASE (COMT) INHIBITION ON THE VASCULAR AND METABOLIC RESPONSES TO NORADRENALINE, ISOPRENALINE AND SYMPATHETIC NERVE STIMULATION IN CANINE SUBCUTANEOUS ADIPOSE TISSUE. Beltrame E, Fredholm BB, Rosell S *Naunyn-Schmiedeberg Arch Pharmacol* 300: 11-7, 25 Oct 77 (Eng) *DL/78OCT141

SYMPOSIUM

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SYMPTOM

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SYNAPTOSOME

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SYNDROME

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SYNTHESIS, PROTEIN

SYNDROME, BARTTER

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SYNDROME, DUMPING

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SYNDROME, REYES

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SYNERGISM

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SYNTHASE, GLYCOGEN

EVIDENCE FOR ALPHA ADRENERGIC ACTIVATION OF PHOSPHORYLASE AND INACTIVATION OF GLYCOGEN SYNTHASE IN RAT ADIPOCYTES. EFFECTS OF ALPHA AND BETA ADRENERGIC AGONISTS AND ANTAGONISTS ON GLYCOGEN SYNTHASE AND PHOSPHORYLASE. Lawrence JC Jr, Larner J *Mol Pharmacol* 13: 1060-75, Nov 77 (Eng) *DL/78OCT130

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SYNTHASE PHOSPHATASE

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SYNTHESIS

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SYNTHESIS, PROTEIN

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SYNTHESIS, PROTEIN

SYNTHESIS, STEROL

FATTY ACID AND STEROL SYNTHESIS BY RAT SMALL INTESTINE IN VITRO. Miguel SG *Lipids* 12: 1080-3, Dec 77 (Eng) *DL/78OCT126

SYNTHETASE

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TEMPERATURE

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TENDON

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TERPENEYL

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TEST

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TEST, GLUCOSE TOLERANCE

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TEST, INSULIN REACTION

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TESTIS

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TESTOSTERONE

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THERAPEUTIC

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THERAPY, ANTIDIABETIC

[PRELIMINARY FINDINGS ON 2 GROUPS OF DIABETICS WITH REGARD TO PLATELET AGGREGATION IN RELATION TO RETINOPATHY AND ULTIMATE RELATION TO ANTIDIABETIC THERAPY] Cavaliere R, Giangrandi E, Innocenti M, Parisi R *Minerva Med* 69: 1923-8, 2 Jun 78 (Ita) DL/78OCT535

THERAPY, INSULIN

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THYROID HORMONE

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THYROTROPIN-RELEASING HORMONE

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TISSUE, ADIPOSE

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TRANSMURAL GRADIENTS IN ISCHEMIC CANINE LEFT VENTRICLE: EFFECTS OF BLOOD REFLOW ON GLYCOLYTIC INTERMEDIATES. Holsinger JW Jr, Ramey CA, Allison TB *Recent Adv Stud Cardiac Struct Metab* 12: 579-83, 26-29 May 76 (Eng) *DL/78OCT195

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Blix PM

(metabolism); MONOGRAPH (mortality); NERVE TISSUE PROTEINS (metabolism); NEUROHUMORS (metabolism); NEURONS (cytology, metabolism); ORGANIDS (metabolism); SOMATOTROPIN RELEASE INHIBITING HORMONE (analysis).

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ANIMAL; CORONARY DISEASE (metabolism, physiopathology); DIETARY FATS

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Bruck J

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MANNOSE-6-PHOSPHATE TRANSFERASES OF THE RETINA: MANNOLIPID AND COMPLEX GLYCAN BIOSYNTHESIS. II. ACTIVITY IN DIFFERENT SPECIES; SUBCELLULAR DISTRIBUTION; DURING DEVELOPMENT. Kean EL, Bruner WE *Exp Eye Res* 25: 419-26, Oct 77 (Eng) *DL/78OCT40

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AGE FACTORS; ANIMAL; CELL DIVISION (drug effects); DNA REPLICATION (drug effects); EPIDERMAL GROWTH FACTORS (pharmacodynamics); GLUCAGON (pharmacodynamics); HEPATECTOMY; HEPATITIS, VIRAL, ANIMAL (physiopathology); IN VITRO; INSULIN (pharmacodynamics); LIVER REGENERATION (drug effects); MALE; MICE; PEPTIDES (pharmacodynamics); RATS; U.S. GOVT SUPPORTED, N.I.H.).

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HORMONES (physiology); HORMONES, SYNTHETIC (therapeutic use); HUMAN; HYPOTHALAMUS-HYPOPHYSAL SYSTEM (physiology); HYPOTHALAMUS (physiology); PITUITARY GLAND (physiology); PITUITARY GLAND, ANTERIOR (physiology); REVIEW.

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ACETYLCHOLINE (pharmacodynamics); ANGIOTENSIN II (pharmacodynamics); ANIMAL; CORTICOSTERONE (pharmacodynamics); CORTICOTROPIN-RELEASING HORMONE (biosynthesis, secretion); DOPAMINE (pharmacodynamics); GLYCINE (pharmacodynamics); GABA (pharmacodynamics); HYPOTHALAMUS (drug effects, metabolism); IN VITRO; MALE; NOREPINEPHRINE (pharmacodynamics); RATS; SEROTONIN (pharmacodynamics).

Burn JM

PERIOPERATIVE CARE: PREOPERATIVE CARE. Burn JM *Br J Hosp Med* 19: 425-32, May 78 (Eng) DL/78OCT294

ANEMIA (diagnosis); ANESTHESIA, GENERAL; CARDIOVASCULAR DISEASES (diagnosis); DIABETES MELLITUS (diagnosis); DRUG INCOMPATIBILITY; FOOD DEPRIVATION; HUMAN; HYPERTHYROIDISM (diagnosis); MEDICAL HISTORY TAKING; PHYSICAL EXAMINATION; PREANESTHETIC MEDICATION; PREOPERATIVE CARE (methods); RESPIRATORY TRACT DISEASES (diagnosis).

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LEUCINE AND ISOLEUCINE AS IN VITRO PRECURSORS FOR LIPID SYNTHESIS BY RAT AORTA. Stillway LW, Weigand DA, Riefler JF, Buse MG *Lipids* 12: 1012-6, Dec 77 (Eng) *DL/78OCT125

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Buttery PJ

THE EFFECTS ON GLUCOSE METABOLISM OF FEEDING A HIGH-UREA DIET TO SHEEP. Leonard MC, Buttery PJ, Lewis D *Br J Nutr* 38: 455-62, Nov 77 (Eng) *DL/78OCT4

Byus CV

ULTRASTRUCTURAL STUDIES OF METABOLICALLY ACTIVE ISOLATED ADULT RAT HEART MYOCYTES. Carlson EC, Grosso DS, Romero SA, Frangakis CJ, Byus CV, Bressler R *J Mol Cell Cardiol* 10: 449-59, May 78 (Eng) DL/78OCT460

Cahn J

COMPARATIVE EFFECTS OF DIHYDROERGOTOXINE (DHET) ON CBF AND METABOLISM CHANGES PRODUCED BY EXPERIMENTAL CEREBRAL EDEMA, HYPOXIA AND HYPERTENSION. Cahn J, Borzeix MG *Gerontology* 24 suppl 1: 34-42, 1978 (Eng) *DL/78OCT53

ANEMIA (metabolism); ANIMAL; BLOOD GAS ANALYSIS; BLOOD SUGAR (metabolism); BRAIN EDEMA (metabolism); BRAIN (metabolism); CEREBRAL ANOXIA (metabolism); CEREBROVASCULAR CIRCULATION (drug effects); COMPARATIVE STUDY; DIHYDROERGOTOXINE (pharmacodynamics); DISEASE MODELS, ANIMAL; DOGS; ELECTROENCEPHALOGRAPHY; ELECTROLYTES (metabolism); HYPERTENSION, RENAL (chemically induced, metabolism); HYPERVENTILATION (metabolism); LACTATES (metabolism); LITHIUM (toxicity); OXYGEN CONSUMPTION (drug effects); RABBITS; TRIETHYLITIN COMPOUNDS (toxicity).

Calvert GD

EFFECTS OF THERAPY ON PLASMA-HIGH-DENSITY-LIPOPROTEIN-CHOLESTEROL CONCENTRATION IN DIABETES MELLITUS. Calvert GD, Graham JJ, Mannik T, Wise PH, Yeates RA *Lancet* 2: 66-8, 8 Jul 78 (Eng) DL/78OCT489

ADOLESCENCE; ADULT; CHOLESTEROL (blood); COMPARATIVE STUDY; CORONARY DISEASE (etiology); DIABETES MELLITUS (blood, therapy); DIABETIC ANGIOPATHIES (etiology); DIABETIC DIET; FEMALE; HEMOGLOBIN A (analysis); HUMAN; HYPOLIPOPROTEINEMIAS (chemically induced); INSULIN (therapeutic use); LIPOPROTEINS, HDL (blood); MALE; MIDDLE AGE; RISK; SULFONYLUREA COMPOUNDS (adverse effects, therapeutic use).

Campbell IA

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ACIDOSIS, DIABETIC (physiopathology); ADOLESCENCE; ADULT; CASE REPORT; FEMALE; FOLLOW-UP STUDIES; HUMAN; PITUITARY HORMONES (secretion).

Campbell IW

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CONTROL OF INSULIN SECRETION DURING FASTING IN MAN. Lilavivathana U, Campbell RG, Brodows RG *Metabolism* 27: 815-21, Jul 78 (Eng) DL/78OCT497

Campiche M

[IS FUNCTIONAL DEMAND A CONDITION WITHOUT WHICH THE PANCREATIC AUTO TRANSPLANT CAN NOT SURVIVE IN THE DOGS SPLEEN] Mosimann F, Mirkovitch V, Macarone-Palmieri R, Blanc D, Campiche M *Helv Chir Acta* 45: 157-9, May 78 (Fre) DL/78OCT409

Canaani Z

[THE PRESENT STATUS OF THE TREATMENT OF DIABETES MELLITUS] Canaani Z *Harefuah* 94: 134-7, Feb 78 (Heb) DL/78OCT394

DIABETES MELLITUS (drug therapy); HUMAN; HYPOGLYCEMIC AGENTS (therapeutic use).

Cappelli N

[USEFULNESS OF TREATMENT WITH SMALL DOSES OF INSULIN IN PREGNANT PATIENTS WITH POTENTIAL OR LATENT DIABETES] Moggi G, Teti G, Gattini M, Giorgi G, Cappelli N, De Luca Brunori I, Coluccia A, Chisci R *Minerva Ginecol* 30: 187-8, Mar 78 (Ita) DL/78OCT538

Capron F

HYDROLASE ACTIVITIES IN THE RAT AORTA. I. EFFECTS OF DIABETES MELLITUS AND INSULIN TREATMENT. Wolinsky H, Goldfischer S, Capron L, Capron F, Coltoff-Schiller B, Kasak L *Circ Res* 42: 821-31, Jun 78 (Eng) DL/78OCT306

HYDROLASE ACTIVITIES IN THE RAT AORTA. II. EFFECTS OF HYPERTENSION ALONE AND IN COMBINATION WITH DIABETES MELLITUS. Wolinsky H, Capron L, Goldfischer S, Capron F, Coltoff-Schiller B, Kasak L *Circ Res* 42: 831-9, Jun 78 (Eng) DL/78OCT307

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ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (metabolism); ANIMAL; EPINEPHRINE (pharmacodynamics); GLUCAGON (pharmacodynamics); MYOCARDIUM (cytology, metabolism, ultrastructure); MYOFIBRILS (ultrastructure); RATS; SARCOLEMMMA (ultrastructure); U.S. GOVT SUPPORTED, N.I.H.); XANTHINES (pharmacodynamics).

Carlson SA

HORMONAL REGULATION OF MEMBRANE PHENOTYPE. Carlson SA, Gelehrter TD *J Supramol Struct* 6: 325-31, 1977 (Eng) *DL/78OCT110

CELL LINE; CELL MEMBRANE (drug effects, physiology); DEXAMETHASONE (pharmacodynamics); DRUG RESISTANCE; HEPATOMA; KINETICS; MUTATION; PHENOTYPE; TISSUE CULTURE (methods); U.S. GOVT SUPPORTED, N.I.H.).

Carollo F

[SEXUAL FUNCTION AND GONADAL DAMAGE IN THE FEMALE DIABETIC] Carollo F *Minerva Med* 69: 1627-32, 12 May 78 (Ita) DL/78OCT522

DIABETES MELLITUS (complications, pathology, physiopathology); FEMALE; HUMAN; HYPOGONADISM (etiology); HYPOTHALAMUS (physiology); INSULIN (pharmacodynamics); OVARY (drug effects, pathology); SEX DISORDERS (etiology).

Caron J

[MICROMETHOD DETERMINATION OF HEMOGLOBIN A LC IN DIABETICS. PRELIMINARY RESULTS (LETTER)] Poynard JP, Malgrange D, Couchot J, Caron J, Leutenegger M, Maquart FX, Than Trong A, Borel JP *Nouv Presse Med* 7: 1648-9, 13 May 78 (Fre) DL/78OCT550

Carpentier JL

125I-INSULIN BINDING TO CULTURED HUMAN LYMPHOCYTES. INITIAL LOCALIZATION AND FATE OF HORMONE DETERMINED BY QUANTITATIVE ELECTRON MICROSCOPIC AUTORADIOGRAPHY. Carpentier JL, Gorden P, Amherdt M, Van Obberghen E, Kahn CR, Orci L *J Clin Invest* 61: 1056-70, Apr 78 (Eng) DL/78OCT421

AUTORADIOGRAPHY; CELL LINE; CELL MEMBRANE (metabolism); HUMAN; INSULIN (blood, metabolism); LYMPHOCYTES (metabolism, ultrastructure); ORGANOIDS (metabolism); RECEPTORS, INSULIN (metabolism); TEMPERATURE; TIME FACTORS.

Carroll RM

COMPARISON OF THE EFFECTS OF THE GROWTH FACTOR PRODUCED BY SPIROMETRA MANSONOIDES AND GROWTH HORMONE IN DIABETIC-HYPOPHYSECTOMIZED RATS: LIPID COMPOSITION. Phares CK, Carroll RM *J Parasitol* 64: 401-5, Jun 78 (Eng) DL/78OCT455

Carta O

[INSULIN SECRETION IN RENAL DIABETES] Carta O, Caselle MT, Dani F *Minerva Med* 69: 1929-43, 2 Jun 78 (Ita) DL/78OCT536

ADULT; BLOOD SUGAR; FEMALE; GLUCAGON (diagnostic use); GLUCOSE TOLERANCE TEST; GLYCOSURIA, RENAL (physiopathology); HUMAN; INSULIN (secretion); MALE; MIDDLE AGE.

Carter IS

HEXOKINASE AND GLUCOSE-PHOSPHOENOLPYRUVATE PHOSPHOTRANSFERASE SYNTHESIS IN KLEBSIELLA AEROGENES STRAINS GROWING IN CONTINUOUS CULTURE. Carter IS, Dean AC *Biochem J* 166: 643-6, 15 Sep 77 (Eng) *DL/78OCT262

GLUCOSE; HEXOKINASE (biosynthesis, metabolism); KLEBSIELLA PNEUMONIAE (enzymology); LACTOSE (metabolism); PHOSPHOENOLPYRUVATE; PHOSPHOTRANSFERASES (biosynthesis, metabolism).

Casale G

[RAISED GLUCAGON LEVELS OF THE BLOOD INDUCED BY ARGININE: RELATION TO BLOOD SUGAR, BLOOD INSULIN AND STH IN AGED NON-DIABETICS AND DIABETICS] Ferrero E, Casale G, Tassi G, Ciapponi A *Minerva Med* 69: 1233-9, 14 Apr 78 (Ita) DL/78OCT517

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LOW-DOSE INSULIN INFUSION THERAPY OF DIABETIC KETOACIDOSIS IN CHILDREN. Saxena KM, Leonard SA, Casey JL *Minn Med* 61: 354-6, Jun 78 (Eng) DL/78OCT505

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THE IN VITRO INTERACTION OF HUMAN APOLIPOPROTEIN A-I AND HIGH DENSITY LIPOPROTEINS. Shepherd J, Gotto AM Jr, Taunton OD, Caslake MJ, Farish E *Biochim Biophys Acta* 489: 486-501, 21 Dec 77 (Eng) *DL/78OCT10

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SUCROSE MALABSORPTION IN MAN AFTER INGESTION OF ALPHA-GLUCOSIDASE INHIBITOR. Caspari WF *Lancet* 1: 1231-3, 10 Jun 78 (Eng) DL/78OCT479

ADMINISTRATION, ORAL; ADULT; ALPHA-GLUCOSIDASES (antagonists & inhibitors); BLOOD SUGAR (antagonists & inhibitors); BREATH TESTS; DEUTERIUM (metabolism); ENZYME INHIBITORS (administration & dosage, pharmacodynamics); FEMALE; GLUCOSIDASES (antagonists & inhibitors); GLUCOSIDES; HUMAN; HYPERGLYCEMIA (prevention & control); INTESTINAL ABSORPTION (drug effects); MALABSORPTION SYNDROMES (chemically induced); MALE; MIDDLE AGE; SUCROSE (administration & dosage, metabolism).

Caster WO

SATURATED ANIMAL FAT, PLASMA CHOLESTEROL AND CORONARY HEART DISEASE. Caster WO, Resurreccion AV *J Med Assoc Ga* 66: 947-9, Dec 77 (Eng) *DL/78OCT82

CHOLESTEROL (blood); DIETARY FATS (adverse effects); FATTY ACIDS (adverse effects); FATTY ACIDS, UNSATURATED (adverse effects); HEART DISEASES (etiology); HUMAN.

Castro A

TUMOR ASSOCIATED HYPOGLYCEMIA AND ELEVATED SERUM NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY. Castro A, Florez L, Rozanski JJ, Mintz DH *J Fla Med Assoc* 65: 421-4, Jun 78 (Eng) DL/78OCT452

ADULT; AGED; CASE REPORT; FEMALE; HEPATOMA (blood, complications); HUMAN; HYPOGLYCEMIA (blood, etiology); LIVER NEOPLASMS (blood, complications); MALE; MESOTHELIOMA (blood, complications);

Cataland S

MIDDLE AGE; NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY (blood); U.S. GOVT SUPPORTED, N.I.H.).

Cataland S

EFFECT OF ATROPINE ON GLUCOSE-STIMULATED GASTRIC INHIBITORY POLYPEPTIDE. Larrimer JN, Mazzaferri EL, Cataland S, Mekhjian HS *Diabetes* 27: 638-42, Jun 78 (Eng) DL/78OCT355

Catellani J

DRUG LABELLING [LETTER] Catellani J, Collins RJ *Lancet* 2: 98, 8 Jul 78 (Eng) DL/78OCT490

ADULT; CASE REPORT; CATHARTICS (adverse effects); DIABETES MELLITUS, JUVENILE (complications); DRUG LABELING; FEMALE; GLUCOSE; HUMAN.

Cattaneo F

[NEWBORN INFANTS, OFFSPRING OF DIABETIC MOTHERS WHOSE DIABETES WAS STRICTLY CONTROLLED DURING PREGNANCY (CLINICAL RESULTS OF 476 CASES)] Barbarani V, Penneff P, Cattaneo F, Vitali S, Marini A *Rev Med Suisse Romande* 98: 259-67, May 78 (Fre) DL/78OCT589

Cavaliere R

[PRELIMINARY FINDINGS ON 2 GROUPS OF DIABETICS WITH REGARD TO PLATELET AGGREGATION IN RELATION TO RETINOPATHY AND ULTIMATE RELATION TO ANTIDIABETIC THERAPY] Cavaliere R, Giangrandi E, Innocenti M, Parisi R *Minerva Med* 69: 1923-8, 2 Jun 78 (Ita) DL/78OCT535

ADULT; AGED; DIABETES MELLITUS (blood, drug therapy); DIABETIC RETINOPATHY (blood, drug therapy); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; METFORMIN (pharmacodynamics, therapeutic use); MIDDLE AGE; PLATELET AGGREGATION (drug effects).

Cavaliere U

[ADVANCED AGE] Cavaliere U *Minerva Med* 69: 991-1004, 30 Mar 78 (Ita) DL/78OCT513

ADAPTATION, PHYSIOLOGICAL; AGED; AGING; ALCOHOL, ETHYL (pharmacodynamics); ALCOHOLIC BEVERAGES; BRAIN (metabolism); CARBOHYDRATES (metabolism); CARDIOVASCULAR SYSTEM (physiopathology); CEREBROVASCULAR CIRCULATION; DIABETES MELLITUS (etiology); ENGLISH ABSTRACT; HEMODYNAMICS; HUMAN; HYPERGLYCEMIA (etiology); HYPERTENSION (etiology).

Cavallo-Perin P

[IMPACT OF STRESS ON SUGAR METABOLISM] Pagano G, Cavallo-Perin P *Minerva Med* 69: 1099-105, 31 Mar 78 (Ita) DL/78OCT514

Cecjka V

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DIABETES MELLITUS (diagnosis, metabolism); DIABETES MELLITUS, JUVENILE (metabolism); HEMOGLOBIN A (analysis, biosynthesis); HEMOGLOBINS (biosynthesis); HUMAN; MODELS, BIOLOGICAL.

Cerasi E

IMMEDIATE AND TIME-DEPENDENT EFFECTS OF GLUCOSE ON INSULIN RELEASE FROM RAT PANCREATIC TISSUE. EVIDENCE FOR DIFFERENT MECHANISMS OF ACTION. Grill V, Adamson U, Cerasi E *J Clin Invest* 61: 1034-43, Apr 78 (Eng) DL/78OCT420

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[ROLE OF INSULAR CYCLIC AMP IN THE CONTROL OF INSULIN SECRETION] Cerasi E, Grill V *Rev Clin Exp* 148: 589-96, 31 Mar 78 (Spa) DL/78OCT585

ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (analysis, physiology); CELLS, CULTURED; GLUCOSE (metabolism); INSULIN (secretion); ISLANDS OF LANGERHANS (cytology, enzymology); STIMULATION, CHEMICAL.

Cerletti A

A CAT HEAD MODEL WITH ISOLATED PERFUSION BY THE ANIMALS OWN BLOOD. Emmenegger H, Cerletti A *Agents Actions* 7: 391-7, Sep 77 (Eng) *DL/78OCT239

Cerutti F

[CONTROL OF THE LIPID PROFILE IN INSULIN-DEPENDENT DIABETIC CHILDREN] Cerutti F, Sacchetti C, Baratonio S, Levis F, Martini A *Minerva Med* 69: 1909-16, 2 Jun 78 (Ita) DL/78OCT534

ADOLESCENCE; AGE FACTORS; CHILD; CHILD, PRESCHOOL; CHOLESTEROL (blood); DIABETES MELLITUS (blood, drug therapy); DIABETES MELLITUS, JUVENILE (blood, drug therapy); FATTY ACIDS, NONESTERIFIED (blood); INSULIN (therapeutic use); LIPIDS (blood); LIPOPROTEINS (blood); PHOSPHOLIPIDS (blood); TIME FACTORS; TRIGLYCERIDES (blood).

Chairez R

VIRUS-INDUCED DIABETES MELLITUS. X. ATTACHMENT OF ENCEPHALOMYOCARDITIS VIRUS AND PERMISSIVENESS OF CULTURED PANCREATIC BETA CELLS TO INFECTION. Chairez R, Yoon JW, Notkins AL *Virology* 85: 606-11, Apr 78 (Eng) DL/78OCT621

ANIMAL; ANTIGENS, VIRAL; CELLS, CULTURED; COMPARATIVE STUDY; DIABETES MELLITUS (etiology); ENCEPHALOMYOCARDITIS VIRUSES (growth & development, immunology, metabolism); ISLANDS OF LANGERHANS (cytology, metabolism, microbiology); MICE; MICE, INBRED STRAINS.

Chait A

REGULATORY ROLE OF INSULIN IN THE DEGRADATION OF LOW DENSITY LIPOPROTEIN BY CULTURED HUMAN SKIN FIBROBLASTS. Chait A, Bierman EL, Albers JJ *Biochim Biophys Acta* 529: 292-9, 25 May 78 (Eng) DL/78OCT286

BIOLOGICAL TRANSPORT, ACTIVE (drug effects); CELLS, CULTURED; FIBROBLASTS (metabolism); HUMAN; INSULIN (pharmacodynamics, physiology); LIPOPROTEINS, LDL (metabolism); LIPOPROTEINS, VLDL (metabolism); RECEPTORS, DRUG (drug effects); SKIN (metabolism); U.S. GOVT SUPPORTED, N.I.H.).

Chakravarti RN

REVERSIBILITY OF CHOLESTEROL-ADRENALINE-INDUCED ATHEROSCLEROSIS IN RHESUS MONKEYS: EVALUATION OF SAFFLOWER OIL AND LOW-FAT LOW-CALORIE DIET. Chakravarti RN, Kumar BS, Nair CR, Kumar M *Atherosclerosis* 28: 405-16, Dec 77 (Eng) *DL/78OCT279

ANIMAL; AORTA (pathology); ARTERIOSCLEROSIS (diet therapy); ATHEROSCLEROSIS (diet therapy, pathology); CALORIC INTAKE; CHOLESTEROL, DIETARY (adverse effects); DIET; DIETARY FATS (administration & dosage, adverse effects); DISEASE MODELS, ANIMAL; EPINEPHRINE (adverse effects); FEMALE; LIPIDS (blood); MALE; MONKEYS; OILS (administration & dosage); RHESUS MONKEYS; SAFFLOWER OIL (administration & dosage).

Chalfie M

CATECHOLAMINE RELEASE FROM THE ADRENAL MEDULLA. Perlman RL, Chalfie M *Clin Endocrinol Metab* 6: 551-76, Nov 77 (Eng) [194 ref.] *DL/78OCT30

Champeyroux J

[BLOOD PROLACTIN IN INSULIN-DEPENDENT DIABETICS. BASAL STUDY AND EFFECT OF STIMULATION] Champeyroux J, Moineau S, Gaillard G, Boucher D *Nouv Presse Med* 7: 1007-8, 25 Mar 78 (Fre) DL/78OCT548

ADULT; AGE FACTORS; DIABETES MELLITUS (blood, drug therapy); DIABETIC RETINOPATHY (blood); ENGLISH ABSTRACT; FEMALE; HUMAN; INSULIN (therapeutic use); MALE; PROLACTIN (blood); STIMULATION, CHEMICAL; THYROTROPIN RELEASING HORMONE (diagnostic use); TIME FACTORS.

[PROLACTIN LEVELS COMPARED BETWEEN NORMAL SUBJECTS AND DIABETICS (LETTER)] Champeyroux J, Boucher D, Moineau S *Nouv Presse Med* 7: 208-9, 21 Jan 78 (Fre) DL/78OCT552

ADULT; COMPARATIVE STUDY; DIABETES MELLITUS (blood, physiopathology); FEMALE; HUMAN; MALE; MIDDLE AGE; PROLACTIN (blood, secretion).

Chan SJ

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THE EFFECT OF ANTI-INFLAMMATORY DRUGS ON THE PROSTAGLANDIN SYSTEM IN HUMAN SUBCUTANEOUS ADIPOSE TISSUE [PROCEEDINGS] Chang J, Lewis GP, Piper PJ *Br J Pharmacol* 61: 446p-447p, Nov 77 (Eng) *DL/78OCT14

ADIPOSE TISSUE (drug effects, metabolism); ANTI-INFLAMMATORY AGENTS (pharmacodynamics); CORTICOTROPIN (pharmacodynamics); HUMAN; IN VITRO; LIPIDS (metabolism); PROSTAGLANDINS (metabolism).

Chang KJ

ANTIBODIES TO PURIFIED INSULIN RECEPTOR HAVE INSULIN-LIKE ACTIVITY. Jacobs S, Chang KJ, Cuatrecasas P *Science* 200: 1283-4, 16 Jun 78 (Eng) DL/78OCT598

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DIFFERENTIATION OF 3T3-L1 FIBROBLASTS TO ADIPOCYTES. EFFECT OF INSULIN AND INDOMETHACIN ON THE LEVELS OF INSULIN RECEPTORS. Chang TH, Polakis SE *J Biol Chem* 253: 4693-6, 10 Jul 78 (Eng) DL/78OCT418

ADIPOSE TISSUE (cytology); CELL DIFFERENTIATION; CELLS, CULTURED; FIBROBLASTS (cytology); INDOMETHACIN

(pharmacodynamics); INSULIN (pharmacodynamics); RECEPTORS, INSULIN (drug effects); U.S. GOVT SUPPORTED, N.I.H.).

Chappel CI

THE SPONTANEOUSLY DIABETIC WISTAR RAT (THE BB RAT). STUDIES PRIOR TO AND DURING DEVELOPMENT OF THE OVERT SYNDROME. Nakhoda AF, Like AA, Chappel CI, Wei CN, Marliis EB *Diabetologia* 14: 199-207, Mar 78 (Eng) DL/78OCT386

Charbonne F

EFFECT OF ENVIRONMENTAL FACTORS AND TISSUE CULTURE METHODOLOGY IN PRODUCING AND STUDYING CULTURED CARDIAC CELLS. Padieu P, Frelin C, Pinson F, Charbonne F, Athias P *Recent Adv Stud Cardiac Struct Metab* 12: 609-20, 26-29 May 76 (Eng) *DL/78OCT196

Charbonnel B

GLUCOSE TOLERANCE IN VIRAL HEPATITIS. A STUDY OF TWENTY PATIENTS DURING THE ACUTE PHASE AND AFTER RECOVERY. Chupin M, Charbonnel B, Le Bodic L, Grolleau JY, Chupin F, Guillon J *Diabetes* 27: 661-9, Jun 78 (Eng) DL/78OCT359

Chastain CB

XANTHOMATOSIS SECONDARY TO DIABETES MELLITUS IN A DOG. Chastain CB, Graham CL *J Am Vet Med Assoc* 172: 1209-11, 15 May 78 (Eng) DL/78OCT413

ANIMAL; CASE REPORT; DIABETES MELLITUS (complications, veterinary); DOG DISEASES (etiology, pathology); DOGS; FEMALE; SKIN (pathology); XANTHOMATOSIS (etiology, pathology, veterinary).

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ACETATES (pharmacodynamics); ANIMAL; ENGLISH ABSTRACT; HYDROCORTISONE (pharmacodynamics); INSULIN (pharmacodynamics); LIVER GLYCOGEN (metabolism); MALE; RATS; STIMULATION, CHEMICAL.

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[RAISED GLUCAGON LEVELS OF THE BLOOD INDUCED BY ARGININE: RELATION TO BLOOD SUGAR, BLOOD INSULIN AND STH

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Dorothy H

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CHILD; DIABETES MELLITUS, JUVENILE (complications); DIABETIC RETINOPATHY (diagnosis); FLUORESCENCE ANGIOGRAPHY; FUNDUS FLUORESCENCE PHOTOGRAPHY; HUMAN.

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BLOOD SUGAR (analysis); CHILD; EVALUATION STUDIES; HUMAN; HYPOGLYCEMIA (diagnosis); INDICATORS AND REAGENTS; INFANT; INFANT, NEWBORN; REAGENT STRIPS.

FOOD HABITS OF 215 DIABETIC CHILDREN IN BELGIUM. Mozin MJ, Dorothy H, de Maertelaer V, Ernould C, Loeb H *Acta Paediatr Belg* 31: 56-8, Jan-Mar 78 (Eng) DL/78OCT654

Dorda W

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A-23187 (pharmacodynamics); ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (metabolism); ASTROCYTOMA (metabolism); CELLS, CULTURED; GLYCOGEN PHOSPHORYLASE (metabolism); ISOPROTERENOL (pharmacodynamics); NEOPLASM PROTEINS (metabolism); PHOSPHODIESTERASE INHIBITORS (physiology); RATS; RECEPTORS, ADRENERGIC (physiology); RECEPTORS, ADRENERGIC, BETA (physiology).

Dub O

[AETIOPATHOGENESIS OF DIABETES MELLITUS (AUTHORS TRANSL)] Dub O *Cas Lek Cesk* 117: 485-7, 21 Apr 78 (Cze) DL/78OCT303

COXSACKIE VIRUS INFECTIONS (complications); DIABETES MELLITUS (etiology); DIETARY CARBOHYDRATES (adverse effects); ENGLISH ABSTRACT; HUMAN; MUSCLES, OBESITY (complications); ORGAN WEIGHT.

Dubernard JM

[A NEW METHOD FOR THE PREPARATION OF A PANCREATIC GRAFT PRIOR TO TRANSPLANTATION: EXPERIMENTAL DATA AND HUMAN APPLICATIONS IN 9 TRANSPLANTS IN 8 DIABETICS (AUTHORS TRANSL)] Dubernard JM, Traeger J, Neyra P, Touraine JL, Devonoc M, Blanc-Brunat N, Ruitton A *Chirurgie* 104: 242-58, 1978 (Fre) DL/78OCT322

ADULT; BLOOD SUGAR (analysis); CASE REPORT; DIABETES MELLITUS (therapy); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE; METHODS; NEOPRENE; PANCREAS (transplantation); PANCREATIC DUCTS; TISSUE DONORS; TRANSPLANTATION, HOMOLOGOUS (transplantation).

[A NEW METHOD OF PANCREATIC TRANSPLANTATION. 1 - EFFECTS ON THE DOG PANCREAS OF THE INTRADUCT INJECTION]

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AMYLASES (blood); ANIMAL; BLOOD SUGAR (analysis); DOGS; ENGLISH ABSTRACT; INJECTIONS; INSULIN (blood); ISLANDS OF LANGERHANS (secretion); NEOPRENE (administration & dosage, pharmacodynamics); PANCREAS (secretion, transplantation); PANCREATIC DUCTS; POLYENES (pharmacodynamics); TRANSPLANTATION, HOMOLOGOUS (transplantation).

Duclos P

[PLASMA APOLIPOPROTEINS IN DYSLIPIDOPROTEINEMIAS. III. LCAT DEFICIENCY AND OTHER HYPERLIPIDEMIAS]
Duclos P, Davignon J *Union Med Can* 107: 637-43, Jul 78 (Fre) DL/78OCT617
APOLIPOPROTEINS (blood); ARTERIOSCLEROSIS (blood, etiology, occurrence); CHOLESTEROL ESTERS (blood); CHOLESTEROL (blood, metabolism); DIABETES MELLITUS (blood); ENGLISH ABSTRACT; FEMALE; HUMAN; HYPERLIPIDEMIA (blood, enzymology); HYPOLIPOPROTEINEMIAS; LECITHIN ACYLTRANSFERASE DEFICIENCY; LIPOPROTEINS, HDL (blood); MALE; PREGNANCY; SEX HORMONES (physiology).

Ducret F

[DELIBERATE SELF-OVERDOSE WITH PROPRANOLOL. CHANGES IN SERUM LEVELS (AUTHORS TRANSL.)] Ducret F, Zech P, Perrot D, Moskvitchenko JF, Traeger J *Nouv Presse Med* 7: 27-8, 7 Jan 78 (Fre) DL/78OCT547
AGED; CASE REPORT; ENGLISH ABSTRACT; GLUCAGON (therapeutic use); HALF-LIFE; HUMAN; MALE; NOREPINEPHRINE (analogs & derivatives); PROPRANOLOL (blood, metabolism, poisoning); RENIN (blood); SUICIDE, ATTEMPTED; TIME FACTORS.

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ADULT; AGED; BIGUANIDES (administration & dosage); BLOOD SUGAR (analysis); BUFORMIN (administration & dosage, therapeutic use); DIABETES MELLITUS (blood, drug therapy); FEMALE; HUMAN; LIPIDS (blood); MALE; MIDDLE AGE.

Durrington P

H.D.L. CHOLESTEROL IN DIABETES MELLITUS [LETTER] Durrington P *Lancet* 2: 206, 22 Jul 78 (Eng) DL/78OCT493

BODY WEIGHT; CHOLESTEROL (blood); DIABETES MELLITUS (blood); HUMAN; INSULIN (pharmacodynamics); LIPOPROTEINS, HDL (blood); OBESITY (blood); STIMULATION, CHEMICAL.

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ACTION POTENTIALS; CALCIUM (physiology); CILIA (physiology); ELECTROPHYSIOLOGY; MEMBRANES (physiology); MOVEMENT; PARAMECIUM (genetics, physiology).

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ANIMAL; BLOOD SUGAR (metabolism); BODY TEMPERATURE; CARBON DIOXIDE (blood); CATS (physiology); ELECTROENCEPHALOGRAPHY; EXTRACORPOREAL CIRCULATION (veterinary); HEAD (blood supply); HYDROGEN-ION CONCENTRATION (physiology); IN VITRO; LACTATES (blood); OXYGEN (blood); PERFUSION (methods, veterinary); REGIONAL BLOOD FLOW; TIME FACTORS.

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INHIBITION OF PLASMA CYCLIC AMP, GLUCOSE AND CORTISOL RESPONSE TO SURGERY BY EPIDURAL ANALGESIA. Madsen SN, Brandt MR, Engquist A, Badawi I, Khelet H *Br J Surg* 64: 669-71, Sep 77 (Eng) *DL/78OCT16

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ADOLESCENCE; ADULT; AUTOANALYSIS; BLOOD SUGAR (analysis); CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS,

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Escourrou G

JUVENILE (blood, drug therapy, nursing); FEMALE; HOME CARE SERVICES; HUMAN; INFANT; INSULIN (administration & dosage, therapeutic use); MEDICAL RECORDS; REAGENT STRIPS.

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ANIMAL; CATS; CHELATING AGENTS (toxicity); COMPARATIVE STUDY; DOGS; ENGLISH ABSTRACT; FROGS; HAMSTERS; INTESTINE, SMALL (drug effects); ISLANDS OF LANGERHANS (drug effects); MALE; MESOCRINETUS; MICE; PIGEONS; PROSTATE (drug effects); RABBITS; TIME FACTORS; ZINC (metabolism).

Espinoza FT

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AGED; AUTONOMIC NERVOUS SYSTEM; DIABETIC NEUROPATHIES (diagnosis, physiopathology); ELECTROCARDIOGRAPHY (economics); HEART RATE; HUMAN; NERVOUS SYSTEM DISEASES (diagnosis, physiopathology); POSTURE.

Expaignet H

SPONTANEOUS FOOD INTAKE IN JUVENILE DIABETES MELLITUS. Gillet P, Expaignet H, Francois R *Acta Paediatr Belg* 31: 59, Jan-Mar 78 (Eng) DL/78OCT655

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ADULT; C-PEPTIDE (administration & dosage, metabolism); CHROMATOGRAPHY, GEL; COMPARATIVE STUDY; DIABETES MELLITUS (metabolism); HUMAN; INFUSIONS, PARENTERAL; INJECTIONS, INTRAVENOUS; KINETICS; MALE; METABOLIC CLEARANCE RATE; MIDDLE AGE; MODELS, BIOLOGICAL; PEPTIDES (metabolism).

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ADOLESCENCE; ADULT; CHILD; CHILD, PRESCHOOL; DIABETES MELLITUS (familial & genetic, immunology); FEMALE; GENOTYPE; GLUCOSE TOLERANCE TEST; HUMAN; HLA ANTIGENS (analysis); INSULIN (blood); MALE; MIDDLE AGE; PEDIGREE.

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ANIMAL; CORTICOTROPIN (physiology); ENDORPHINS (analysis, immunology); HUMAN; MICE; PITUITARY GLAND (analysis); PITUITARY GLAND, ANTERIOR (analysis); RATS.

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ANIMAL; ANIMALS, NEWBORN (blood); BLOOD SUGAR (analysis); CATTLE DISEASES (blood); CATTLE (blood); DIARRHEA (blood, veterinary); FASTING (veterinary); FEMALE; FRUCTOSE (administration & dosage, blood); GLUCOSE (administration & dosage); INJECTIONS, INTRAVENOUS; MALE.

Fayyaz A

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[INSULIN ACTIVITY OF BLOOD SERUM OF RABBITS IMMUNIZED WITH TICK-BORNE ENCEPHALITIS- AND WESTERN-EQUINE-ENCEPHALOMYELITIS VIRUSES] Fedorova TS *Zh Mikrobiol Epidemiol Immunobiol* 75-7, Feb 78 (Rus) DL/78OCT638

ANIMAL; ANTIGENS, VIRAL; ENCEPHALITIS VIRUS, WESTERN EQUINE (immunology); ENCEPHALITIS VIRUSES, TICK-BORNE (immunology); ENGLISH ABSTRACT; IMMUNIZATION, SECONDARY; INSULIN ANTAGONISTS (injuries); INSULIN (blood, deficiency); MALE; RABBITS; TIME FACTORS; VIRAL VACCINES (administration & dosage).

Feige A

[DIABETIC EMBRYOPATHY/FETOPATHY. PATHOPHYSIOLOGY AND CLINICAL ASPECTS] Feige A *Med Klin* 73: 819-26, 2 Jun 78 (Ger) DL/78OCT502

ABNORMALITIES, MULTIPLE (etiology); EMBRYO; FEMALE; FETUS; GIGANTISM (etiology); HUMAN; HYALINE MEMBRANE DISEASE (etiology); HYPERTROPHY; INFANT, NEWBORN; LABOR, INDUCED; PANCREATIC DISEASES (etiology); PLACENTAL INSUFFICIENCY (etiology); PRE-ECLAMPSIA (etiology); PREGNANCY IN DIABETES; PREGNANCY; RESPIRATORY DISTRESS SYNDROME (etiology).

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AGED; ARTERIAL OCCLUSIVE DISEASES (surgery); ARTERIES (surgery); DIABETIC ANGIOPATHIES (surgery); FEMALE; HUMAN; LEG (blood supply); MALE; METHODS; TIME FACTORS; TRANSPLANTATION, AUTOLOGOUS (transplantation); VEINS (transplantation).

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ANIMAL; CATTLE; IN VITRO; MITOCHONDRIA, HEART (metabolism); NAD (metabolism); OXIDATIVE PHOSPHORYLATION; SUCCINATES (metabolism); THERMODYNAMICS.

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(metabolism); DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCAGON (pharmacodynamics); HYDROCORTISONE (pharmacodynamics); LIVER REGENERATION; LIVER (drug effects, metabolism); MALE; RATS; RECEPTORS, HORMONE (drug effects); SODIUM (pharmacodynamics).

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AMINO ACIDS (blood); ANIMAL NUTRITION; ANIMAL; BLOOD SUGAR (analysis); ENGLISH ABSTRACT; FEMALE; INSULIN (blood); LACTATION; PREGNANCY; PREGNANCY, ANIMAL; SHEEP (physiology); UREA (blood).

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THE EFFECTS OF GLYCEROL TREATMENT ON THE ISOLATED RAT HEART. Weihe E, Hartschuh W, Kalmbach P, Antony P, Greiner J, Forssmann WG *Cell Tissue Res* 185: 43-62, 30 Nov 77 (Eng) *DL/78OCT23

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ANIMAL; BLOOD SUGAR (metabolism); CATS; DOGS; ERYTHROCYTES (drug effects, metabolism); GLUCOSEPHOSPHATE DEHYDROGENASE DEFICIENCY (blood); HORSES; HUMAN; IN VITRO; KINETICS; METHYLENE BLUE (pharmacodynamics); OXIDATION-REDUCTION (drug effects); SUPEROXIDE DISMUTASE (blood); U.S. GOVT SUPPORTED, N.I.H.).

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ANIMAL; CHICKENS (metabolism); GLUCOSE (metabolism); MALE; SOMATOTROPIN (secretion).

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[SELECTIVE HYPOALDOSTERONISM WITH HYPERRININEMIA IN A DIABETIC PATIENT (AUTHORS TRANSL)] Takeda R, Morimoto S, Saito Z, Mabuchi H, Uchida K, Usukura N, Miyamori I, Miyamoto M, Kishitani M, Hashiba T, Su Kim K, Hirai J, Yamamoto I *Nippon Naika Gakkai Zasshi* 67: 278-83, 10 Mar 78 (Jpn) *DL/78OCT443

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ACYL COENZYME A (metabolism); ANIMAL; AORTA, THORACIC (metabolism); ARTERIOSCLEROSIS (metabolism); ATHEROSCLEROSIS (metabolism); CHOLESTEROL ACYLTRANSFERASE (metabolism); CHOLESTEROL ESTERS (biosynthesis); CHOLESTEROL (metabolism); IN VITRO; MALE; MICROSOMES (metabolism); RABBITS; U.S. GOVT SUPPORTED, N.I.H.); U.S. GOVT SUPPORTED, NON-N.I.H.).

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MECHANISM OF CHOLINERGIC ANTAGONISM OF THE EFFECTS OF ISOPROTERENOL ON HEARTS FROM HYPERTHYROID RATS. Watanabe AM, Hathaway DR, Besch HR Jr *Recent Adv Stud Cardiac Struct Metab* 11: 423-9, 26-29 May 76 (Eng) *DL/78OCT175

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[UTILIZATION OF THE PERFUSION OF SURVIVING ORGANS IN TOXICOLOGICAL ANALYSIS. PREPARATION OF TOLBUTAMIDE, GLUTETHIMIDE AND CYCLOBARBITAL METABOLITES UTILIZING THE PERFUSION OF THE SURVIVING RAT LIVER] Hatle K, Vecerek B, Lutovska M, Perina M *Cas Lek Cesk* 117: 395-9, 31 Mar 78 (Cze) *DL/78OCT302

ANIMAL; BARBITURATES (metabolism); BIOTRANSFORMATION; CYCLOBARBITAL (metabolism); ENGLISH ABSTRACT; GLUTETHIMIDE (metabolism); LIVER (physiology); PERFUSION; RATS; SOLUTIONS; TOLBUTAMIDE (metabolism).

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BASAL HYPERINSULINEMIA IN WISTAR-RATS RENDERED OBESE BY A HIGH-FAT DIET. Peters WH, Gottschling D, Ziegler M, Haude W *Acta Biol Med Ger* 36: 1343-6, 1977 (Eng) *DL/78OCT640

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ANIMAL; CELLS, CULTURED; CORTICOSTERONE (pharmacodynamics); ELECTROPHORESIS, POLYACRYLAMIDE GEL; ESTRADIOL (pharmacodynamics); IN VITRO; PITUITARY GLAND, ANTERIOR (metabolism); PITUITARY NEOPLASMS (metabolism); PROGESTERONE (pharmacodynamics); RADIOIMMUNOASSAY; RATS; SEX HORMONES (pharmacodynamics); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); SOMATOTROPIN (biosynthesis); STANOLONE (pharmacodynamics); TESTOSTERONE (pharmacodynamics).

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[CORRELATIONS BETWEEN AGE, RISK FACTORS FOR ARTERIOSCLEROSIS AND ENDOCRINE FUNCTIONS (AUTHORS TRANSL)] Hosdorf T, Wagner H, Oberwittler W, Hauss WH *Aktuel Gerontol* 8: 317-30, Jun 78 (Ger) *DL/78OCT684

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UTILIZATION OF HEXOSES IN A FISSION YEAST, SCHIZOSACCHAROMYCES POMBE. IV. PURIFICATION AND PROPERTIES OF HEXOSE-BINDING PROTEINS. Bhandari HC, Hayashibe M *J Biochem (Tokyo)* 82: 1197-204, Nov 77 (Eng) *DL/78OCT64

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ACETOACETATES (blood); ADOLESCENCE; AMINO ACIDS (blood); BLOOD SUGAR (metabolism); CHILD; CHILD, PRESCHOOL; GLUCAGON (blood); GLUCOSE SOLUTION, HYPERTONIC (metabolism); GLUCOSE (metabolism); GLYCERIN (blood); HUMAN; HYDROCORTISONE (blood); HYDROXYBUTYRATES (blood); INSULIN (blood); REYES SYNDROME (blood); SOMATOTROPIN (blood); U.S. GOVT SUPPORTED, N.I.H.).

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ACIDOSIS (chemically induced); DIABETES MELLITUS (drug therapy); DRUG EVALUATION; GASTROINTESTINAL DISEASES (chemically induced); HUMAN; LACTATES (blood); METFORMIN (adverse effects, metabolism, therapeutic use); PHENFORMIN (adverse effects, metabolism, therapeutic use).

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THE EFFECT OF AEROBIC AND ANOXIC PERFUSION ON PROTEIN SYNTHESIS IN CARDIAC ARREST. Schreiber SS, Hearse DJ, Oratz M, Rothschild MA *Recent Adv Stud Cardiac Struct Metab* 12: 61-7, 26-29 May 76 (Eng) *DL/78OCT197

MYOCARDIAL PROTECTION DURING ISCHEMIC CARDIAC ARREST. POSSIBLE DELETERIOUS EFFECTS OF GLUCOSE AND MANNITOL IN CORONARY INFUSATES. Hearse DJ, Stewart DA, Braimbridge MV *J Thorac Cardiovasc Surg* 76: 16-23, Jul 78 (Eng) *DL/78OCT472

ANIMAL; CARDIOPULMONARY BYPASS; CORONARY DISEASE (physiopathology); GLUCOSE (adverse effects); HEART ARREST, INDUCED; HEART (drug effects); HEMODYNAMICS (drug effects); INSULIN (pharmacodynamics); MALE; MANNITOL (adverse effects); PERFUSION; RATS; SOLUTIONS.

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Hebbelink M

EFFECTS OF PORTACAVAL DIVERSION ON LIPID METABOLISM IN RAT ADIPOSE TISSUE. Pector JC, Winand J, Verbeustel S, Hebbelink M, Christophe J *Am J Physiol* 234: e759-83, Jun 78 (Eng) DL/78OCT682

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AGED; AORTA (analysis); ARTERIOSCLEROSIS (metabolism); ATHEROSCLEROSIS (metabolism); FATTY ACIDS (analysis); HUMAN; ISOMERISM; JEJUNUM (analysis); MALE; MIDDLE AGE; MYOCARDIUM (analysis); MYRISTIC ACIDS (analysis); PALMITATES (analysis); STEARIC ACIDS (analysis).

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ANIMAL; CATTLE; INJECTIONS, INTRAVENOUS; INJECTIONS, INTRAVENTRICULAR; KINETICS; MALE; SOMATOTROPIN (blood); THYROTROPIN-RELEASING HORMONE (administration & dosage, pharmacodynamics).

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[INFLUENCE OF SOMATOSTATIN (GIF) AND HUMAN GASTRIN I ON THE LOWER ESOPHAGEAL SPHINCTER] Heil T, Mattes P, Raptis S *Langenbecks Arch Chir suppl*: 178-83, 1976 (Ger) *DL/78OCT123

ENGLISH ABSTRACT; ESOPHAGOGASTRIC JUNCTION (drug effects, physiology); GASTRINS (pharmacodynamics); HUMAN; MUSCLE TONUS (drug effects); PRESSURE; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics).

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AN EXTENDED MODEL OF THE GLYCOLYSIS IN ERYTHROCYTES. Rapoport TA, Otto M, Heinrich R *Acta Biol Med Ger* 36: 461-8, 1977 (Eng) *DL/78OCT222

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C-PEPTIDE SECRETION DURING THE REMISSION PHASE OF JUVENILE DIABETES. Heinze E, Beischer W, Keller L, Winkler G, Teller WM, Pfeiffer EF *Diabetes* 27: 670-6, Jun 78 (Eng) DL/78OCT360

ADOLESCENCE; ADULT; ARGININE (diagnostic use); BLOOD SUGAR (metabolism); C-PEPTIDE (secretion); CHILD; DIABETES MELLITUS, JUVENILE (metabolism); DRUG SYNERGISM; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; ISLANDS OF LANGERHANS (physiopathology, secretion); MALE; PEPTIDES (secretion); REMISSION.

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SELECTIVE CALCIFICATION OF PANCREATIC ISLETS OF LANGERHANS. AN UNUSUAL ASSOCIATION WITH HYPERCALCEMIA AND DIABETES MELLITUS. Cotelingam JD, Hellstrom R *Diabetes* 27: 620-4, Jun 78 (Eng) DL/78OCT352

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ARABINOSE (metabolism); BIOLOGICAL TRANSPORT; ESCHERICHIA COLI (growth & development, genetics, metabolism); FUCOSE (antagonists & inhibitors, genetics, metabolism, pharmacodynamics); GALACTOSE (metabolism); GALACTOSIDES (metabolism); GLUCOSE (metabolism); HYDROGEN-ION CONCENTRATION (physiology); KINETICS; LACTOSE (metabolism); MUTATION; PHOSPHOTRANSFERASES (metabolism); PROTONS.

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ADENOSINE TRIPHOSPHATE (pharmacodynamics); AMINO ACIDS (metabolism); AMINO ACYL T RNA SYNTHETASES (metabolism); ANIMAL; BIOLOGICAL TRANSPORT, ACTIVE; CALCIUM (metabolism); CARCINOMA, EHRICH TUMOR (metabolism); CELL MEMBRANE PERMEABILITY (drug effects); CELL MEMBRANE (physiology); DETERGENTS (pharmacodynamics); DEXTRAN (pharmacodynamics); HELA CELLS (drug effects, metabolism); METHODS; OSMOLAR CONCENTRATION; REVIEW; TOLUENE (pharmacodynamics).

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ADENOSINE TRIPHOSPHATE (diagnostic use); GLYCERIN (blood); GLYCEROL KINASE (diagnostic use); LUCIFERASE (diagnostic use); LUMINESCENCE; METHODS; TRIGLYCERIDES (blood); U.S. GOVT SUPPORTED, N.I.H.; U.S. GOVT SUPPORTED, NON-U.S.).

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ADOLESCENCE; CHILD; CHILD, PRESCHOOL; DERMATOGLYPHICS; DIABETES MELLITUS, JUVENILE (diagnosis); ENGLISH ABSTRACT; FEMALE; HUMAN; MALE.

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[ETIOLOGY OF DIABETES] Herrera Pombo JL *Rev Clin Esp* 148: 583-7, 31 Mar 78 (Spa) DL/78OCT584

DIABETES MELLITUS (etiology); HUMAN.

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ANIMAL; BLOOD SUGAR; FATTY ACIDS, NONESTERIFIED (blood); FEMALE; GLYCERIN (blood); GLYCOGEN (metabolism); HYDROXYBUTYRATES (blood); LIVER (metabolism); MUSCLES (metabolism); PHYSICAL ENDURANCE; RATS; TIME FACTORS; U.S. GOVT SUPPORTED, N.I.H.).

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[HEMODYNAMIC CHANGES IN HYPOGLYCEMIC SHOCK] Gutierrez C, Piza R, Chousleb A, Hidalgo MA, Ortigosa JL *Prensa Med Mex* 42: 476-81, Nov-Dec 77 (Spa) DL/78OCT557

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[SELECTIVE HYPOALDOSTERONISM WITH HYPERRENINEMIA IN A DIABETIC PATIENT (AUTHORS TRANSL)] Takeda R, Morimoto S, Saito Z, Mabuchi H, Uchida K, Usukura N, Miyamori I, Miyamoto M, Kishitani M, Hashiba T, Su Kim K, Hirai J, Yamamoto I *Nippon Naika Gakkai Zasshi* 67: 278-83, 10 Mar 78 (Jpn) DL/78OCT443

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QUANTITATION OF SOMATOSTATIN INHIBITION OF INSULIN-STIMULATED GASTRIC ACID AND PEP SIN SECRETION IN THE CAT. Hirst BH, Reed JD, Shaw B, Coy DH, Schally AV *Acta Hepatogastroenterol (Stuttg)* 25: 208-12, Jun 78 (Eng) DL/78OCT645

ANIMAL; CATS; GASTRIC JUICE (secretion); GASTRIC MUCOSA (drug effects); INSULIN ANTAGONISTS; INSULIN (pharmacodynamics); PEPSIN (secretion); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics).

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GLUCAGON OR CYCLIC AMP-STIMULATED SYNTHESIS OF 5-PHOSPHORIBOSYL 1-PYROPHOSPHATE IN ISOLATED HEPATOCYTES AND INHIBITION BY ANTIMICROTUBULAR DRUGS. Hisata T, Katsufuji N, Tatibana M *Biochem Biophys Res Commun* 81: 304-9, 14 Apr 78 (Eng) DL/78OCT703
ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (pharmacodynamics); ANIMAL; COLCHICINE (pharmacodynamics); CYTOCHALASIN B (pharmacodynamics); EPINEPHRINE (pharmacodynamics); GLUCAGON (pharmacodynamics); GUANOSINE CYCLIC-3,5-MONOPHOSPHATE (pharmacodynamics); IN VITRO; INSULIN (pharmacodynamics); LIVER (drug effects, metabolism); MALE; PENTOSEPHOSPHATES (biosynthesis); PHOSPHORIBOSYL PYROPHOSPHATE (biosynthesis); PODOPHYLLOTOXIN (pharmacodynamics); RATS; VINBLASTINE (pharmacodynamics).

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DIRECT ANTILIPOLYTIC EFFECT OF ACIDOSIS IN ISOLATED RAT ADIPOCYTES. Hjemdahl P, Fredholm BB *Acta Physiol Scand* 101: 294-301, Nov 77 (Eng) *DL/78OCT235
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FEMALE; HUMAN; PREGNANCY IN DIABETES; PREGNANCY.

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AEROSOLS; ANIMAL; AUTOMOBILE EXHAUST (adverse effects, analysis); BLOOD SUGAR (metabolism); BODY WEIGHT (drug effects); CHICK EMBRYO; EMBRYO (drug effects); ENZYMES (blood); HEMATOCRIT; SULFURIC ACIDS (pharmacodynamics); TIME FACTORS.

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AMINO ACID SEQUENCE; ARABINOSE (metabolism); BIOLOGICAL TRANSPORT; ACTIVE; CARRIER PROTEINS (metabolism); CELL MEMBRANE (metabolism); ESCHERICHIA COLI (metabolism); GENES; KINETICS; OPERON; PROTEIN BINDING; STEREOISOMERS; U.S. GOVT SUPPORTED, N.I.H.).

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UNSTIRRED LAYER AND KINETICS OF ELECTROGENIC GLUCOSE ABSORPTION IN THE HUMAN JEJUNUM IN SITU. Read NW, Barber DC, Levin RJ, Holdsworth CD *Gut* 18: 865-76, Nov 77 (Eng) *DL/78OCT54

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ANIMAL; ANTIBODIES (analysis); ANTIBODY FORMATION; ANTIGENIC DETERMINANTS; ANTIGENS; CATTLE; CROSS REACTIONS; FEMALE; GUINEA PIGS; HAPTENS (analysis); INSULIN (analogs & derivatives, immunology).

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AMINO ACIDS (metabolism); ANIMAL; BODY COMPOSITION; BODY WEIGHT; ENERGY METABOLISM; FASTING; FEMALE; GROWTH; HYPOTHALAMUS (physiology); LIPIDS (metabolism); NITROGEN (metabolism, urine); PROTEINS (metabolism); RATS.

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GLYCOLYSIS; HEART VENTRICLE (metabolism); KINETICS; LACTATES (metabolism); MYOCARDIUM (metabolism); TIME FACTORS.

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[CORRELATIONS BETWEEN AGE, RISK FACTORS FOR ARTERIOSCLEROSIS AND ENDOCRINE FUNCTIONS (AUTHORS TRANSL.)]

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FRUCTOSEDIPHOSPHATES

(pharmacodynamics); GLUCONEOGENESIS (drug effects); GLYCOLYSIS (drug effects); ISOENZYMES (metabolism); KIDNEY CORTEX (drug effects, enzymology); MALE; MANGANESE (pharmacodynamics); PHOSPHENOLPYRUVATE (pharmacodynamics); PYRUVATE KINASE (metabolism); RABBITS.

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BLOOD PRESSURE; DIABETES MELLITUS (physiopathology); EXERCISE TEST; FOREARM (physiology, physiopathology); HUMAN; MIDDLE AGE; U.S. GOVT SUPPORTED, NON-N.I.H.).

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QUANTITATION OF EPINEPHRINE- AND GLUCAGON-SENSITIVE ADENYLATE CYCLASES OF RAT LIVER. IMPLICATIONS OF ALTERATIONS OF ENZYMATIC ACTIVITIES DURING PREPARATION OF PARTICULATE FRACTIONS AND MEMBRANES. Katz MS, Kalish MI, Pineyro MA, Gregerman RI *Biochim Biophys Acta* 540: 205-20, 3 May 78 (Eng) DL/78OCT288

ADENYL CYCLASE (metabolism); AGING; ANIMAL; ENZYME ACTIVATION (drug effects); EPINEPHRINE (pharmacodynamics); FEMALE; GLUCAGON (pharmacodynamics); KINETICS; LIVER (drug effects, enzymology, growth & development); MALE; RATS; SUBCELLULAR FRACTIONS (enzymology).

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EFFECT OF PROTEIN KINASE MODULATOR ON CAMP-DEPENDENT PROTEIN KINASE-CATALYZED PHOSPHORYLATION OF PHOSPHOLAMBAN AND STIMULATION OF CALCIUM TRANSPORT IN CARDIAC SARCOPLASMIC RETICULUM. Ohmori F, Tada M, Kinoshita N, Matsuo H, Sakakibara H *Recent Adv Stud Cardiac Struct Metab* 11: 279-84, 26-29 May 76 (Eng) *DL/78OCT167

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HYDROXYPROLINE (urine);
HYPERCALCEMIA (etiology);
HYPERPARATHYROIDISM; KIDNEY
CALCULI (etiology); KIDNEY FAILURE,
CHRONIC (etiology); KIDNEY (transplantation);
MALE; MIDDLE AGE; NEOPLASM
METASTASIS; OSTEOPOROSIS (etiology);
PANCREATITIS (complications);
PARATHYROID NEOPLASMS (pathology);
PHOSPHORUS (blood); PREGNANCY
COMPLICATIONS (in pregnancy);
PREGNANCY; REVIEW;
TRANSPLANTATION, AUTOLOGOUS
(transplantation).

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PLICATING PREGNANCY.** Hare JW, Kitz-
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DIABETES MELLITUS]** Sorkin Khl., Soritselli
RR, Klark DE *Urol Nefrol (Mosk)* 13-5, May-Jun
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**[PHASE TRANSITION STUDIES OF MODEL
AND BIOLOGICAL MEMBRANES. I. USE OF
HYDROPHOBIC FLUORESCENT PROBES
FOR STUDYING PHASE TRANSITIONS IN
LIPOSOMES]** Nikushkin EV, Klebanov GI,
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**DECREASED DEOXY-D-GLUCOSE TRANS-
PORT IN FRIEND CELLS DURING EXPO-
SURE TO INDUCERS OF ERYTHROID DIF-
FERENTIATION.** Germaino RJ, Kleiman L,
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**[HYPERGLYCEMIA DUE TO ORAL IN-
FLUENCE ON GLUCOSE AND PERIODON-
TAL DISEASE]** Roth JJ, Roth JP, Klewansky P
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**[CHOLESTEROL METABOLISM IN RABBITS
WITH RESISTANCE TO EXPERIMENTAL
ATHEROSCLEROSIS ACQUIRED BY IMMUNO-
LOGICAL TREATMENT]** Klimov AN,
Dokusova OK, Petrova-Maslakova LG,
Loviagina TN, Nagornev VA *Vopr Med Khim*
303-7, Nov-Dec 77 (Rus) *DL/78OCT215

**ANIMAL; ARTERIOSCLEROSIS (immunology);
ATHEROSCLEROSIS (immunology, metabolism);
BILE ACIDS AND SALTS (metabolism); CHOLESTEROL (metabolism);
DIET, ATHEROGENIC; ENGLISH ABSTRACT;
FECES (metabolism); IMMUNIZATION;
LIPOPROTEINS, LDL (immunology);
LIPOPROTEINS, VLDL (immunology);
MITOCHONDRIA, LIVER (metabolism);
RABBITS.**

Klimt CR

**EFFECTS OF HYPOGLYCEMIC AGENTS ON
VASCULAR COMPLICATIONS IN PATIENTS
WITH ADULT-ONSET DIABETES. VII. MOR-
TALITY AND SELECTED NONFATAL
EVENTS WITH INSULIN TREATMENT.** Knat-
terud GL, Klimt CR, Levin ME, Jacobson ME,
Goldner MG *JAMA* 240: 37-42, 7 Jul 78 (Eng)
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Klingenberg HG

**[SEROLOGICAL AND HISTOLOGICAL IN-
VESTIGATIONS AS WELL AS STUDIES ON
CHANGED FOOD UPTAKE DURING
ADRENALINE APPLICATION BY IN-
TRAPERITONEAL DEPOT CAPSULE]** Kling-
enberg HG, Porta S, Egger G, Sadjak A, Kramer
G *Exp Pathol (Jena)* 14: 273-81, Nov 77 (Ger)
*DL/78OCT42

**ANIMAL; BLOOD SUGAR (metabolism); BODY
WEIGHT (drug effects); DELAYED-ACTION
PREPARATIONS; DRUG IMPLANTS; EATING
(drug effects); ENGLISH ABSTRACT;
EPINEPHRINE (administration & dosage,
pharmacodynamics); FEMALE; LACTATE
DEHYDROGENASE (blood); LIPIDS
(metabolism); LIVER GLYCOGEN (metabolism);
LIVER (drug effects, metabolism); MALE;
PERITONEAL CAVITY; RATS;
TRIGLYCERIDES (blood).**

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**ELECTRICAL IMBALANCE OF ADENINE
NUCLEOTIDE TRANSPORT ACROSS THE
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**A STUDY ON SERUM LIPIDS OF THE EL-
DERLY.** Klorfajn I, Mizrahy O, Assa S *J Gerontol*
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**AGED; ARTERIOSCLEROSIS (blood);
ATHEROSCLEROSIS (blood, prevention &
control); CHOLESTEROL (blood); CHRONIC
DISEASE; DIET, ATHEROGENIC; DIETARY
FATS (adverse effects); ETHNIC GROUPS;
FEMALE; FOOD HABITS; HUMAN; ISRAEL;
LIPIDS (blood); MALE; MIDDLE AGE;
TRIGLYCERIDES (blood).**

Knatterud GL

**EFFECTS OF HYPOGLYCEMIC AGENTS ON
VASCULAR COMPLICATIONS IN PATIENTS
WITH ADULT-ONSET DIABETES. VII. MOR-
TALITY AND SELECTED NONFATAL
EVENTS WITH INSULIN TREATMENT.** Knat-
terud GL, Klimt CR, Levin ME, Jacobson ME,
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**BLOOD SUGAR (analysis); CLINICAL
RESEARCH; DIABETES MELLITUS
(complications, diet therapy, drug therapy,
mortality); DIABETIC ANGIOPATHIES
(occurrence); FOLLOW-UP STUDIES;
GLUCOSE TOLERANCE TEST; HUMAN;
HYPOGLYCEMIA (chemically induced);
INSULIN (administration & dosage, adverse
effects, pharmacodynamics, therapeutic use);
PROSPECTIVE STUDIES; RISK; U.S. GOVT
SUPPORTED, N.I.H.).**

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THROUGH ORGANIC LIQUID MEMBRANE.**
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**EFFECTS OF L-LACTATE ON GLYCERAL-
DEHYDE-3-P DEHYDROGENASE IN HEART
MUSCLE.** Mochizuki S, Kobayashi K, Neely JR
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**[STUDIES ON PRIMING FLUID AND TRANSFU-
SION FOR OPEN HEART SURGERY UN-
DERGOING CARDIOPULMONARY BYPASS
IN THE ASPECTS OF CARBOHYDRATE
METABOLISM (AUTHORS TRANSL.)]** Shida
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GLUCOSE TRANSPORT CAPACITY BY CIR-
CULATING INSULIN IN RATS.** Kobayashi M,
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**ADIPOSE TISSUE (metabolism); ANIMAL;
BIOLOGICAL TRANSPORT; DEOXYGLUCOSE
(metabolism); DIABETES MELLITUS,
EXPERIMENTAL (metabolism); GLUCOSE
(metabolism); HYPERGLYCEMIA (metabolism);
IN VITRO; INSULIN (blood, physiology);
KINETICS; MALE; RATS; U.S. GOVT
SUPPORTED, N.I.H.); U.S. GOVT
SUPPORTED, NON-N.I.H.).**

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**PARTIAL GONADOTROPHIN-RESISTANCE IN
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TY OF THE PANCREAS OF IRRADIATED
RATS.** Kocmierska-Grodzka D *Pol J Pharmacol
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**ANIMAL; FATTY ACIDS, NONESTERIFIED
(blood, metabolism); FEMALE; LIPASE
(metabolism); LIPIDS (metabolism);
MITOCHONDRIA (metabolism); PANCREAS
(metabolism, radiation effects, ultrastructure);
RATS; TIME FACTORS; X-RAYS.**

**INVESTIGATIONS ON THE MODIFICATION
OF POSTIRRADIATION PANCREATIC
LIPASE ACTIVITY BY SOME ENDO- OR EXO-
GENIC FACTORS. PART II. THE IN-
FLUENCE OF SOME IONS, BIOGENIC
AMINES AND HORMONES.** Kocmierska-
Grodzka D *Strahlentherapie* 154: 430-5, Jun 78
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**ACETYLCHOLINE (pharmacodynamics);
ANIMAL; BIOGENIC AMINES
(pharmacodynamics); CALCIUM
(pharmacodynamics); FEMALE; GLUCAGON
(pharmacodynamics); HISTAMINE
(pharmacodynamics); HORMONES
(pharmacodynamics); HYDROCORTISONE
(pharmacodynamics); IONS (pharmacodynamics);
LIPASE (secretion); MALE; PANCREAS (drug
effects, enzymology, radiation effects);
POTASSIUM (pharmacodynamics); RATS;
SEROTONIN (pharmacodynamics).**

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**MYOCARDIAL METABOLISM OF SPONTANE-
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DICAPS IN ACCIDENTS]** Kohn P *Hefte Unfall-
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**ACCIDENT PRONESS; ACCIDENTS;
ADOLESCENCE; ADULT; AGED;
CARDIOVASCULAR DISEASES
(complications); CHILD; CHILD, PRESCHOOL;
DIABETES MELLITUS (complications);
DISEASE; FEMALE; HANDICAPPED; HUMAN;
INFANT; MALE; MIDDLE AGE.**

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[CHARACTERISTICS OF THE COURSE AND TREATMENT OF BURN DISEASE IN A PATIENT SUFFERING FROM A SEVERE DEGREE OF DIABETES MELLITUS] Kulbaka VS, Kozinets GP *Vestn Khir* 120: 91-2, May 78 (Rus) DL/78OCT620

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[PROLIFERATION OF THE EXOCRINE AND ENDOCRINE PORTIONS OF THE PANCREAS AFTER ITS RESECTION] Krasnov VP *Eksp Biol Med* 85: 464-7, Apr 78 (Rus) DL/78OCT290

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ANIMAL; COMPARATIVE STUDY; ENGLISH ABSTRACT; ISLANDS OF LANGERHANS (cytology); MICE; MICE, INBRED CBA; MICE, INBRED C57BL; PANCREAS (cytology); PANCREATECTOMY; THYMIDINE; TIME FACTORS; TRITIUM.

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ANIMAL; CYCLAMATES (administration & dosage, toxicity); CYCLOHEXYLAMINES (administration & dosage, toxicity); EMBRYO (drug effects); GROWTH (drug effects); MICE; REPRODUCTION (drug effects); SACCHARIN (administration & dosage, toxicity); TERATOGENS.

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ADULT; ARTIFICIAL ORGANS; BLOOD SUGAR (metabolism); CASE REPORT; FEMALE; HUMAN; INSULIN (blood); ISLANDS OF LANGERHANS (physiology); ISLET CELL TUMOR (blood, surgery); PROINSULIN (blood).

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[CHARACTERISTICS OF THE COURSE AND TREATMENT OF BURN DISEASE IN A PATIENT SUFFERING FROM A SEVERE DEGREE OF DIABETES MELLITUS] Kulbaka VS, Kozinets GP *Vestn Khir* 120: 91-2, May 78 (Rus) DL/78OCT620
ACUTE DISEASE; ADOLESCENCE; BURNS (complications, therapy); CASE REPORT; DIABETES MELLITUS (therapy); HUMAN; MALE.

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REVERSIBILITY OF CHOLESTEROL-ADRENALINE-INDUCED ATHEROSCLEROSIS IN RHESUS MONKEYS: EVALUATION OF SAFFLOWER OIL AND LOW-FAT LOW-CALORIE DIET. Chakravarti RN, Kumar BS, Nair CR, Kumar M *Atherosclerosis* 28: 405-16, Dec 77 (Eng) *DL/78OCT279

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BINDING SITES; CHEMISTRY; COLLOIDS; GLYCOGEN PHOSPHORYLASE; MICELLES; PROTEIN BINDING; PYRIDOXAL PHOSPHATE; SCHIFF BASES; SPECTROMETRY, FLUORESCENCE; SPECTROPHOTOMETRY.

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LIPOLYTIC ACTIVITY OF CIS-BETA-CARBOXYACRYLAMIDE: STUDIES IN VIVO AND IN VITRO. Kupiecki FP *Biochem Pharmacol* 27: 279-84, 1 Feb 78 (Eng) *DL/78OCT272
ACRYLATES (pharmacodynamics); ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (metabolism); ADENYL CYCLASE (metabolism); ADIPOSE TISSUE (drug effects, metabolism); AMIDINES (pharmacodynamics); ANIMAL; BODY WEIGHT (drug effects); FATTY ACIDS, NONESTERIFIED (blood); IN VITRO; LIPASE (metabolism); LIPIDS (metabolism); MALE; PHOSPHOPROTEIN PHOSPHATASES (metabolism); PROTEIN KINASE (metabolism); RATS; 3,5-CYCLIC AMP PHOSPHODIESTERASE (metabolism).

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ADULT; BARTTERS DISEASE (diagnosis); BLOOD SUGAR (metabolism); CASE REPORT; DIAGNOSIS, DIFFERENTIAL; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; HYPERALDOSTERONISM (diagnosis); INSULIN (secretion); KIDNEY DISEASES (etiology); KIDNEY FUNCTION TESTS; SOMATOTROPIN (secretion).

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ADRENAL GLANDS (physiology); ADRENERGIC BETA RECEPTOR BLOCKADERS (therapeutic use); ANIMAL; CATECHOLAMINES (pharmacodynamics, physiology); HEART (drug effects, physiology); HUMAN; HYPERTHYROIDISM (drug therapy, physiopathology); REVIEW; SYMPATHETIC NERVOUS SYSTEM (physiology); THYROID GLAND (innervation, physiology, physiopathology); THYROID HORMONES (metabolism, physiology).

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[METABOLIC DISORDERS IN CHRONIC ALCOHOLISM] Lao B *Pol Tyg Lek* 33: 699-702, 24 Apr 78 (Pol) [28 ref.] DL/78OCT555

ALCOHOL, ETHYL (metabolism); ALCOHOLIC INTOXICATION (metabolism); ALCOHOLISM (complications, metabolism); HUMAN; HYPOGLYCEMIA (etiology); LACTATES (metabolism); MITOCHONDRIA, LIVER; MODELS, CHEMICAL; OXIDATION-REDUCTION; REVIEW; URIC ACID (metabolism).

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ADULT; AGED; BLOOD SUGAR (metabolism); DUODENAL ULCER (blood); FEMALE; GASTRIC INHIBITORY POLYPEPTIDE (blood); GASTROINTESTINAL HORMONES (blood); GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); MALE; MIDDLE AGE.

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THE EFFECTS OF THE DOPAMINE AGONIST, LERGOTRILE MESYLATE, ON PROLACTIN SECRETION IN WOMEN. Leebaw W, Lee L, Woolf P *Acta Endocrinol (Kbh)* 87: 12-8, Jan 78 (Eng) *DL/78OCT230

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IN VITRO; INSULIN (physiology); LIPOPROTEINS, VLDL (physiology); LIPOPROTEIN FACTORS (physiology); LIVER NEOPLASMS (chemically induced); LIVER REGENERATION; LIVER (cytology); NUCLEOTIDES (metabolism); RATS; RECEPTORS, HORMONE; U.S. GOVT SUPPORTED, N.I.H.).

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DIABETES MELLITUS (complications, diagnosis); HUMAN; MOUTH DISEASES (etiology); RISK.

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[MECHANISMS OF IMMUNITY AND AUTOIMMUNITY IN THE PATHOGENESIS OF DIABETES (EDITORIAL)] Lender M *Harefuah* 94: 147-8, Feb 78 (Heb) DL/78OCT395

AUTOANTIBODIES; DIABETES MELLITUS (immunology); HUMAN; IMMUNITY.

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STUDIES OF FATTY LIVER AND KIDNEY SYNDROME IN CHICKENS: DYNAMICS OF GLUCOSE METABOLISM. Balnave D, Wolfenden J, Ball FM, Cumming RB, Leng RA *Br J Nutr* 38: 329-34, Nov 77 (Eng) *DL/78OCT3

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[PRE- AND POSTOPERATIVE TREATMENT OF THE DIABETIC PATIENT] Lenti G *Minerva Med* 69: 1107-12, 31 Mar 78 (Ita) DL/78OCT515

DIABETES MELLITUS (complications, metabolism, pathology); GLUCOSE (therapeutic use); HUMAN; INSULIN (therapeutic use); MICROCIRCULATION (pathology); POSTOPERATIVE CARE; PREOPERATIVE CARE.

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ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (pharmacodynamics); ANIMAL; CARBOXYLYASES (metabolism); DIBUTYRYL CYCLIC AMP (pharmacodynamics); GLUCOSE (metabolism); GUANOSINE CYCLIC-3,5-MONOPHOSPHATE (analogs & derivatives, pharmacodynamics); HYPOPHYSECTOMY; INSULIN (pharmacodynamics); LIVER (enzymology); MALE; ORNITHINE DECARBOXYLASE (metabolism); RATS; U.S. GOVT SUPPORTED, N.I.H.; XANTHINES (pharmacodynamics).

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IS THERE A HIGH AFFINITY SITE FOR SUGAR TRANSPORT AT THE INNER FACE OF THE HUMAN RED CELL MEMBRANE? Lieb WR, Stein WD *J Theor Biol* 69: 311-9, 21 Nov 77 (Eng) *DL/78OCT118
BIOLOGICAL TRANSPORT; ERYTHROCYTE MEMBRANE (metabolism); ERYTHROCYTES (metabolism); GLUCOSE (metabolism); HUMAN; KINETICS; MODELS, BIOLOGICAL.

Like AA

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ADULT; BLOOD SUGAR (metabolism); COMPARATIVE STUDY; EPINEPHRINE (urine); FASTING; FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (blood); GLUCOSE (pharmacodynamics); HUMAN; INSULIN (blood); MALE; U.S. GOVT SUPPORTED, N.I.H.).

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BETA-LIPOTROPIN IS THE MAJOR OPIOID-LIKE PEPTIDE OF HUMAN PITUITARY AND RAT PARS DISTALIS: LACK OF SIGNIFICANT BETA-ENDORPHIN. Liotta AS, Suda T, Krieger DT *Proc Natl Acad Sci USA* 75: 2950-4, Jun 78 (Eng) DL/78OCT565

ANIMAL; CORTICOTROPIN (blood, metabolism); ENDORPHINS (metabolism); FREEZING; HUMAN; INSULIN (pharmacodynamics); LIPOTROPIN (blood, metabolism); MALE; PITUITARY GLAND (metabolism); PITUITARY GLAND, ANTERIOR (metabolism); PITUITARY GLAND, POSTERIOR (metabolism); RATS; TEMPERATURE; U.S. GOVT SUPPORTED, N.I.H.); VASOPRESSIN (pharmacodynamics).

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[NUTRITION IN PREGNANCY COMPLICATED BY DIABETES] Lipovskii SM *Akush Ginekol (Mosk)* 63-6, May 78 (Rus) DL/78OCT686
CARBOHYDRATES (metabolism); FEMALE; HUMAN; INSULIN (metabolism); NUTRITION; PREGNANCY IN DIABETES (diet therapy, metabolism); PREGNANCY.

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OXIDATION OF PALMITATE AND LACTATE BY BEATING MYOCYTES ISOLATED FROM ADULT DOG HEART. Liu MS, Spitzer JJ *J Mol Cell Cardiol* 10: 415-26, May 78 (Eng) DL/78OCT459

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RELATIVE CHROMIUM RESPONSE AS AN INDICATOR OF CHROMIUM STATUS. Liu VJ, Morris JS *Am J Clin Nutr* 31: 972-6, Jun 78 (Eng) DL/78OCT669

AGED; BLOOD SUGAR (metabolism); CHROMIUM (blood, diagnostic use, metabolism); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; HYPERGLYCEMIA (metabolism); INSULIN (blood); MIDDLE AGE; NUTRITIONAL REQUIREMENTS; U.S. GOVT SUPPORTED, NON-N.I.H.).

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[EMPHYSEMATOUS PYELONEPHRITIS AND METHODS OF ITS TREATMENT] Liulko AV, Kropinov PI *Vrach Delo* 86-90, Apr 78 (Rus) DL/78OCT627

CASE REPORT; DIABETES MELLITUS (complications); EMPHYSEMA (complications); ENGLISH ABSTRACT; FEMALE; HUMAN; MIDDLE AGE; PYELONEPHRITIS (therapy); SUPPURATION.

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ADIPOSE TISSUE (drug effects, metabolism); ANIMAL; BIOLOGICAL TRANSPORT (drug effects); GLUCOSE (metabolism); IN VITRO; INSULIN (pharmacodynamics, physiology); KINETICS; MALE; OXIDATION-REDUCTION; RATS; RECEPTORS, INSULIN (drug effects, metabolism); U.S. GOVT SUPPORTED, N.I.H.).

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ENGLISH ABSTRACT; ESTRADIOL (administration & dosage, blood, therapeutic use); FEMALE; HUMAN; MENOPAUSE (drug effects); MIDDLE AGE; TRIGLYCERIDES (blood).

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[EFFECT OF PHYSICAL EXERTION ON INDICES OF CHOLESTEROL METABOLISM IN ALIMENTARY OBESITY] Loiko VI, Kolmakov VN, Parnov BS, Bashmakov VP *Vopr Med Khim* 787-8, Nov-Dec 77 (Rus) *DL/78OCT214

CHOLESTEROL ESTERS (blood); CHOLESTEROL (blood); ENGLISH ABSTRACT; EXERTION; HUMAN; OBESITY (blood).

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ALANINE AMINOTRANSFERASE (blood); ALKALINE PHOSPHATASE (blood); AMYLASES (blood); ASPARTATE AMINOTRANSFERASE (blood); BILIRUBIN (blood); BLOOD PROTEINS (analysis); BLOOD SUGAR (analysis); CREATININE (blood); DIAGNOSIS, LABORATORY; DRUG THERAPY (adverse effects); ENGLISH ABSTRACT; HUMAN; IRON (blood); LACTATE DEHYDROGENASE (blood); REVIEW; SERUM ALBUMIN (analysis).

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CAPILLARIES (pathology); DIABETES MELLITUS (pathology); DIABETIC ANGIOPATHIES (pathology); ENGLISH ABSTRACT; HUMAN; SKIN (blood supply).

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[SELECTIVE HYPOALDOSTERONISM WITH HYPERNINEMIA IN A DIABETIC PATIENT (AUTHORS TRANSL)] Takeda R, Morimoto S, Saito Z, Mabuchi H, Uchida K, Usukura N, Miyamori I, Miyamoto M, Kishitani M, Hashiba T, Su Kim K, Hirai J, Yamamoto I *Nippon Naika Gakkai Zasshi* 67: 278-83, 10 Mar 78 (Jpn) DL/78OCT443

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[IS FUNCTIONAL DEMAND A CONDITION WITHOUT WHICH THE PANCREATIC AUTO TRANSPLANT CAN NOT SURVIVE IN THE DOGS SPLEEN] Mosimann F, Mirkovitch V, Macarone-Palmieri R, Blanc D, Campiche M *Helv Chir Acta* 45: 157-9, May 78 (Fre) DL/78OCT409

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DOES INSULIN ACT DIRECTLY ON THE BRAIN TO INCREASE TRYPTOPHAN LEVELS MacKenzie RG, Trulsson ME *J Neurochem* 30: 1205-8, May 78 (Eng) DL/78OCT453

AMINO ACIDS (blood); ANIMAL; BRAIN STEM (metabolism); BRAIN (drug effects, metabolism); DIABETES MELLITUS, EXPERIMENTAL (blood); FEMALE; INSULIN (pharmacodynamics); RATS; TRYPTOPHAN

Diabetes Literature—Author Index

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ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (antagonists & inhibitors, blood); ADULT; ANESTHESIA, EPIDURAL; ANESTHESIA, GENERAL; BLOOD SUGAR (metabolism); COMPARATIVE STUDY; FEMALE; HUMAN; HYDROCORTISONE (blood); HYSTRECTOMY; MIDDLE AGE.

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RELATIVE IMPORTANCE OF CORTICOSTEROID NEGATIVE-FEEDBACK AT THE HYPOTHALAMUS AND ANTERIOR PITUITARY GLAND [PROCEEDINGS] Mahmoud S, Jones MT *J Endocrinol* 75: 29p-30p, Dec 77 (Eng) *DL/78OCT85

ADRENAL CORTEX HORMONES (metabolism, pharmacodynamics); ANIMAL; CORTICOTROPIN RELEASING HORMONE (pharmacodynamics); CORTICOTROPIN (secretion); FEEDBACK; HYPOTHALAMO-HYPOPHYSAL SYSTEM (metabolism); PITUITARY-ADRENAL SYSTEM (metabolism); RATS; SECRETORY RATE (drug effects); STRESS.

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[TREATMENT OF PORTAL HYPERTENSION. VARIOUS ASPECTS OF MINOR PATHOLOGY IN THE SURGICALLY TREATED CIRRHOTIC PATIENT] Masciarillo S, Porcellini M, Zotti GC, De Sena G, Mancuso M *Minerva Med* 69: 1195-6, 7 Apr 78 (Ita) DL/78OCT516

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[BEHAVIOR OF BLOOD TESTOSTERONE, 17-BETA-ESTRADIOL, LH AND FSH AFTER STIMULATION WITH HCG AND LHRH IN A GROUP OF DIABETIC SUBJECTS WITH SEXUAL DEFICIENCY] Ando S, Mangiafico S, Condorelli L, Vitale G, Gulizia S *Minerva Med* 69: 1623-6, 12 May 78 (Ita) DL/78OCT521

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CHILD; DIABETES MELLITUS, JUVENILE (occurrence); ENGLAND; FEMALE; HUMAN; MALE; SPACE-TIME CLUSTERING.

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CHOLESTEROL (blood); CLOFIBRATE (therapeutic use); DRUG EVALUATION; HUMAN; HYPERLIPIDEMIA (drug therapy); LIPOPROTEINS, HDL (blood); LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); TRIGLYCERIDES (blood).

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[NEWBORN INFANTS, OFFSPRING OF DIABETIC MOTHERS WHOSE DIABETES WAS STRICTLY CONTROLLED DURING PREGNANCY (CLINICAL RESULTS OF 476 CASES)] Barbarani V, Penef P, Cattaneo F, Vitali S, Marini A *Rev Med Suisse Romande* 98: 259-67, May 78 (Fre) DL/78OCT589

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AUTOIMMUNE DISEASES (immunology); B-LYMPHOCYTES (immunology); CELL MIGRATION INHIBITION; DIABETES MELLITUS (etiology, immunology); HUMAN; IMMUNITY, CELLULAR; ISLANDS OF LANGERHANS (immunology); LYMPHOCYTE DEPLETION; LYMPHOCYTE TRANSFORMATION; PANCREATITIS (complications); REVIEW; ROSETTE FORMATION; T-LYMPHOCYTES (immunology); VIRUS DISEASES (immunology).

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ANAPHYLAXIS (immunology); ANIMAL; BIOLOGICAL TRANSPORT; BLOOD COAGULATION TESTS; CYTOTOXICITY, IMMUNOLOGIC; FOOD HYPERSENSITIVITY (etiology); HUMAN; IMMUNIZATION; INSULIN (therapeutic use); INTESTINES (immunology); INTRADERMAL TESTS; PRECIPITIN TESTS; TRYPSIN; RIBONUCLEASE (metabolism); TRYPSIN INHIBITORS (pharmacodynamics).

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ADULT; CAPILLARIES; DIABETES MELLITUS (complications); DIABETIC ANGIOPATHIES (drug therapy, pathology); DIABETIC RETINOPATHY (pathology); HUMAN; MIDDLE AGE.

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ANIMAL; CARBOHYDRATES (metabolism); CHRONIC DISEASE; FATTY ACIDS (metabolism); HYPERINSULINISM (enzymology); LIVER (enzymology); MALE; RATS; U.S. GOVT SUPPORTED, N.I.H.).

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AMINO ACIDS (metabolism); ANIMAL; BILE (metabolism); BIOLOGICAL TRANSPORT, ACTIVE; CELL MEMBRANE (metabolism); DOGS; ENDOTOXINS (blood); GLUCOSE (biosynthesis, metabolism); INDOCYANINE GREEN (metabolism); INSULIN (metabolism); LACTATES (biosynthesis); LIVER (metabolism, pathology); MEMBRANE POTENTIALS; OXYGEN CONSUMPTION.

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TOTAL HEPATIC ISCHAEMIA IN THE RHESUS MONKEY. McMaster P, Medd R *Br J Surg* 64: 819-21, Nov 77 (Eng) *DL/78OCT15

ANIMAL; BLOOD SUGAR (analysis); FEMALE; ISCHEMIA (blood, physiopathology); LIVER (blood supply, pathology, physiopathology); MONKEYS; POTASSIUM (blood); RHESUS MONKEYS; TIME FACTORS.

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ANIMAL; CALCIUM CHLORIDE (pharmacodynamics); DIBUTYRYL CYCLIC AMP (pharmacodynamics); ENZYME ACTIVATION (drug effects); FEMALE; GLYCOGEN PHOSPHORYLASE (metabolism); HEART RATE (drug effects); HYPERTHYROIDISM (chemically induced, metabolism); MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (enzymology); NOREPINEPHRINE (pharmacodynamics); RATS; THYROID GLAND (physiology); TRIIODOTHYRONINE (pharmacodynamics).

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ANIMAL; AUTORADIOGRAPHY; DOGS; ENGLISH ABSTRACT; ISCHEMIA (pathology); ISLANDS OF LANGERHANS (pathology); MICROSCOPY, ELECTRON; PANCREAS (blood supply, pathology); POSTMORTEM CHANGES; TIME FACTORS.

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ACETATES (metabolism); ANIMAL; FATTY ACIDS (biosynthesis); GLUCOSE (metabolism); IN VITRO; JEJUNUM (metabolism); PYRUVATES (metabolism); RATS; STEROLS (biosynthesis).

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EFFECT OF GLUCOSE AND AMINO ACIDS ON FOETAL RAT PANCREATIC GROWTH AND INSULIN SECRETION IN VITRO. de Gasparo M, Milner GR, Norris PD, Milner RD *J Endocrinol* 77: 241-8, May 78 (Eng) DL/78OCT449

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ADOLESCENCE; AUTOANALYSIS; BLOOD SUGAR (analysis); CHILD; COMPARATIVE STUDY; DIABETES MELLITUS, JUVENILE (blood); EVALUATION STUDIES; HUMAN; INDICATORS AND REAGENTS; REAGENT STRIPS.

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RELATION OF INSULIN RELEASE TO CYCLIC AMP CONTENT IN RAT PANCREATIC ISLETS MAINTAINED IN TISSUE CULTURE. Rabinovitch A, Cuendet GS, Sharp GW, Renold AE, Mintz DH *Diabetes* 27: 766-73, Jul 78 (Eng) DL/78OCT373

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[IS FUNCTIONAL DEMAND A CONDITION WITHOUT WHICH THE PANCREATIC AUTO TRANSPLANT CAN NOT SURVIVE IN THE DOGS SPLEEN] Mosimann F, Mirkovitch V, Macarone-Palmieri R, Blanc D, Campiche M *Helv Chir Acta* 45: 157-9, May 78 (Fre) DL/78OCT409

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[ORAL HYPOGLYCEMIC AGENTS] Mirouze J *Rev Clin Exp* 148: 575-8, 31 Mar 78 (Spa) DL/78OCT582

ADMINISTRATION, ORAL; DIABETES MELLITUS (drug therapy); DIABETES MELLITUS, JUVENILE (drug therapy); FEMALE; HUMAN; HYPOGLYCEMIC AGENTS (administration & dosage, adverse effects); MALE; PREGNANCY IN DIABETES (drug therapy); PREGNANCY.

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GLYCOLYSIS (drug effects); HEART (drug effects); IN VITRO; KINETICS; LACTATES (metabolism, pharmacodynamics); MALE; MYOCARDIUM (enzymology); PERFUSION; RATS; U.S. GOVT SUPPORTED, N.I.H.).
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Diabetes Literature—Author Index

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RATS; RECEPTORS, HORMONE; REVIEW; SOMATOTROPIN (secretion); TESTOSTERONE (secretion); THYMUS GLAND (secretion); THYROID GLAND (secretion); THYROTROPIN (secretion); VASOPRESSIN (secretion).

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HYPERTENSION (metabolism, physiopathology);
KREBS CYCLE; MALE; MITOCHONDRIA,
HEART (metabolism); **MYOCARDIUM**
 (metabolism); **OXIDATIVE**
PHOSPHORYLATION;
PENTOSEPHOSPHATES (metabolism); **RATS.**

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DIABETES MELLITUS (metabolism); **DIETARY**
FATS (adverse effects); **DIETARY FIBER**
 (analysis, therapeutic use); **DIVERTICULOSIS,**
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 (pharmacodynamics); **LIPODYSTROPHY**
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 (pharmacodynamics); **GLYCOLYSIS; MICE;**
NEOPLASMS, EXPERIMENTAL (metabolism);
OXIDATIVE PHOSPHORYLATION (drug effects); **PHOSPHORUS** (metabolism); **U.S.**
GOVT SUPPORTED, N.I.H.).

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PARENTERAL; INSULIN (administration &
 dosage, therapeutic use); **KETOSIS, DIABETIC**
 (drug therapy); **MALE.**

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EXPERIMENTAL (pathology); **FSH**
 (pharmacodynamics); **MALE; RATS; TESTIS**
 (drug effects, metabolism, pathology); **VITAMIN E**
 (pharmacodynamics).

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DIABETES MELLITUS (complications, pathology, physiopathology); DIABETES MELLITUS, EXPERIMENTAL (pathology); ESTROGENS (urine); GONADOTROPINS, CHORIONIC (pharmacodynamics, therapeutic use); GONADOTROPINS, PITUITARY (physiology); HUMAN; HYPOTHALAMO-HYPOPHYSAL SYSTEM (physiopathology); IMPOTENCE (etiology); MALE; RATS; TESTIS (drug effects, pathology, physiopathology).

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CELL LINE; CELL MEMBRANE (metabolism); ENDOCYTOSIS; EPIDERMAL GROWTH FACTORS (metabolism); FIBROBLASTS (metabolism); INSULIN (metabolism); PEPTIDES (metabolism); RECEPTORS, DRUG (metabolism); RECEPTORS, INSULIN (metabolism); TEMPERATURE.

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ADULT; DIABETES MELLITUS (blood); ELECTROPHORESIS, POLYACRYLAMIDE GEL; HEMOGLOBIN A (analysis); HEMOGLOBINS (analysis); HUMAN; ISOELECTRIC FOCUSING; METHODS.

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ANIMAL; BIOLOGICAL TRANSPORT (drug effects); CHROMONAR (pharmacodynamics); COUMARINS (pharmacodynamics); FATTY ACIDS, NONESTERIFIED (metabolism); IN VITRO; KINETICS; MALE; MYOCARDIUM (metabolism); PALMITIC ACIDS (metabolism); RATS.

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ADENOSINE TRIPHOSPHATE (metabolism); AEROBIC; ANAEROBIC; ANIMAL; GLYCOGEN (metabolism); GUINEA PIGS; HEART ARREST (metabolism); HEART VENTRICLE (metabolism); LACTATES (metabolism); MALE; MUSCLE PROTEINS (biosynthesis); MYOCARDIUM (metabolism); PERFUSION; PHOSPHOCREATINE (metabolism); U.S. GOVT SUPPORTED, N.I.H.); U.S. GOVT SUPPORTED, NON-N.I.H.).

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[COURSE OF PREGNANCY AND LABOR AND THE CARBOHYDRATE TOLERANCE OF WOMEN WITH OBESITY] Shevchenko TK *Akush Ginekolog (Mosk)* 13-6, May 78 (Rus) DL/78OCT685

CARBOHYDRATES (metabolism); DRUG TOLERANCE; ENGLISH ABSTRACT; FEMALE; HUMAN; LABOR COMPLICATIONS (diagnosis); OBESITY (diagnosis); PREGNANCY IN DIABETES (diagnosis); PREGNANCY COMPLICATIONS (diagnosis); PREGNANCY.

Shida H

[STUDIES ON PRIMING FLUID AND TRANSFUSION FOR OPEN HEART SURGERY UNDERGOING CARDIOPULMONARY BYPASS IN THE ASPECTS OF CARBOHYDRATE METABOLISM (AUTHORS TRANSL)] Shida H, Morimoto M, Inokawa K, Tsugane J, Kobayashi M *Kyobu Geka* 30: 806-10, Oct 77 (Jpn) *DL/78OCT106

ADOLESCENCE; ADULT; BLOOD SUGAR (metabolism); CARDIOPULMONARY BYPASS; CHILD; COMPARATIVE STUDY; ENGLISH ABSTRACT; HEART SURGERY; HUMAN; MALTOSE (metabolism); MIDDLE AGE; PLASMA SUBSTITUTES (metabolism).

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ADENOSINE TRIPHOSPHATE (pharmacodynamics); ANIMAL; BODY TEMPERATURE; CARBOHYDRATES (metabolism); CORONARY CIRCULATION; DEXAMETHASONE (pharmacodynamics); DOGS; FATTY ACIDS, NONESTERIFIED (blood); HEART (physiology); HYPOTHERMIA, INDUCED; LIPIDS (metabolism); MYOCARDIUM (metabolism); PYRUVATE DEHYDROGENASE COMPLEX (metabolism); PYRUVATES (blood).

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ANIONS; BIOLOGICAL TRANSPORT, ACTIVE; ETHYLENE DICHLORIDES; MEMBRANE POTENTIALS; MEMBRANES, ARTIFICIAL; OXIDATION-REDUCTION; PHENYLENEDIAMINES; PICRATES (metabolism).

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NUCLEOTIDE SEQUENCE AND AMPLIFICATION IN BACTERIA OF STRUCTURAL GENE FOR RAT GROWTH HORMONE. Seeburg PH,

Shine J, Martial JA, Baxter JD, Goodman HM *Nature* 270: 486-94, 8 Dec 77 (Eng) *DL/78OCT139

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CATARACT (etiology); CHICK EMBRYO; CRYSTALLINS (biosynthesis); LENS; CRYSTALLINE (metabolism); MOLECULAR WEIGHT; OUABAIN (pharmacodynamics); POTASSIUM (metabolism); RABBITS; SODIUM (metabolism); TISSUE CULTURE.

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[ENERGY METABOLISM DISORDERS IN THE MYOCARDIUM DUE TO ALCOHOLIC INTOXICATION] Shishov VI, Novoselova NG, Maevskii EI, Glotov NA *Vopr Med Khim* 760-3, Nov-Dec 77 (Rus) *DL/78OCT213

ALCOHOLIC INTOXICATION (enzymology); ALCOHOLISM (enzymology); ANIMAL; CYTOCHROME OXIDASE (metabolism); CYTOCHROME REDUCTASES (metabolism); ENGLISH ABSTRACT; GLUTAMATE DEHYDROGENASE (metabolism); KETOGLUTARIC ACIDS; LACTATE DEHYDROGENASE (metabolism); MALATE DEHYDROGENASE (metabolism); MALE; MITOCHONDRIA, HEART (enzymology); OXALOACETATES; OXIDOREDUCTASES (metabolism); PYRUVATES; RATS; SUCCINATE DEHYDROGENASE (metabolism); SUCCINATES.

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HYPERGLUCAGONEMIA AND HEPATIC KETOGENESIS IN BURNED SWINE. Wachtel TL, Shuck JM, Schade D, Eaton RP, Shuck LW *J Trauma* 18: 248-53, Apr 78 (Eng) DL/78OCT461

Shuck LW

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CUTANEOUS MANIFESTATIONS OF PANCREATIC DISEASES. Sibrack LA, Gouterman IH *Cutis* 21: 763-8, Jun 78 (Eng) DL/78OCT318

DERMATITIS (etiology); FAT NECROSIS (etiology); GLUCAGON (secretion); HUMAN; ISLET CELL TUMOR (complications); PANCREATIC DISEASES (complications); PANCREATIC NEOPLASMS (complications, secretion); PANCREATITIS (complications); PANNICULITIS, NODULAR NONSUPPURATIVE (diagnosis); PIGMENTATION DISORDERS (etiology); SKIN MANIFESTATIONS; SYNDROME.

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THE ROLE OF BRUSH BORDER ENZYMES IN TUBULAR REABSORPTION OF DISACCHARIDES: A MICROPERFUSION STUDY IN RAT KIDNEY. Silbernagl S *Pfluegers Arch* 371: 141-5, 19 Oct 77 (Eng) *DL/78OCT146

ALPHA-GLUCOSIDASES (metabolism); ANIMAL; CELL MEMBRANE (enzymology); DISACCHARIDES (metabolism); GLUCOSE (pharmacodynamics); KIDNEY TUBULES, PROXIMAL (metabolism); LACTOSE (metabolism); MALE; MALTOSE (metabolism); MICROVILLI (enzymology); PERFUSION; PHLORHIZIN (pharmacodynamics); RATS; SUCROSE (metabolism).

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ANIMAL FEED; ANIMAL; BLOOD SUGAR (analysis); BODY TEMPERATURE; CRICETUS (blood, physiology); DRINKING; HAMSTERS (physiology); MALE.

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[LIPODYSTROPHY. CLINICAL ASPECTS AND DIFFERENTIAL DIAGNOSIS] Kather H, Zollig K, Simon B *Med Klin* 73: 855-60, 9 Jun 78 (Ger) [55 ref.] DL/78OCT503

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ACTIN (metabolism); ANIMAL; CARBON RADIOISOTOPES; CATHEPSIN (metabolism); FEMALE; HALF-LIFE; HEART ENLARGEMENT (metabolism, physiopathology); KINETICS; LEUCINE; LYOSOMES (enzymology); MUSCLE PROTEINS (metabolism); MYOCARDIUM (metabolism); MYOSIN (metabolism); RATS; RIBONUCLEASE (metabolism); RNA, TRANSFER (metabolism); U.S. GOVT SUPPORTED, N.I.H.; U.S. GOVT SUPPORTED, NON-N.I.H.).

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COLLAGEN OF DUPUYTREN'S DISEASE. Bailey AJ, Sims TJ, Gabbiani G, Bazin S, LeLous M *Clin Sci Mol Med* 53: 499-502, Nov 77 (Eng) *DL/78OCT32

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ADENOSINE TRIPHOSPHATE (metabolism); ARSENATES (pharmacodynamics); AZIDES (pharmacodynamics); BIOLOGICAL TRANSPORT (drug effects); CARBONYL CYANIDE M-CHLOROPHENYL HYDRAZONE (pharmacodynamics); CYTOCHROMES (metabolism); DINITROPHENOLS (pharmacodynamics); GALACTOSE (metabolism); GLUTAMINE (metabolism); HYDROGEN-ION CONCENTRATION (physiology); KINETICS; METHYLGALACTOSIDES (metabolism); MUTATION; PROLINE (metabolism); *SALMONELLA TYPHIMURIUM* (metabolism).

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CARBOHYDRATE METABOLISM IN PRE-ECLAMPSIA. Singh MM *Br J Obstet Gynaecol* 83: 124-31, Feb 76 (Eng) DL/78OCT283
ADOLESCENCE; ADULT; BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (blood); PLACENTAL LACTOGEN (blood); PRE-ECLAMPSIA (blood, metabolism); PREGNANCY TOXEMIAS (metabolism); PREGNANCY.

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ANIMAL; DOGS; ERGOTAMINE

(pharmacodynamics); FATTY ACIDS, NONESTERIFIED (blood); FEMALE; HYPOPHYSECTOMY; LIPIDS (metabolism); MALE; SOMATOTROPIN (pharmacodynamics); TARTRATES; TIME FACTORS.

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ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (metabolism); ADENYL CYCLASE (metabolism); CARCINOMA, EHRlich TUMOR (metabolism); CELLS, CULTURED; COMPARATIVE STUDY; CYTOSOL (metabolism); EPINEPHRINE (pharmacodynamics); GUANOSINE TRIPHOSPHATE (pharmacodynamics); GUANYLYL IMIDODIPHOSPHATE (pharmacodynamics).

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ANIMAL; ANTIGENS; ARGININE (pharmacodynamics); BLOOD SUGAR (metabolism); GASTROINTESTINAL SYSTEM (physiology); GLUCAGON (blood, immunology); INSULIN (blood, immunology, pharmacodynamics); KIDNEY (physiology); LIVER (physiology); MALE; PANCREATECTOMY; RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); U.S. GOVT SUPPORTED, N.I.H.).

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ANIMAL; ANIMALS, NEWBORN (metabolism); BLOOD SUGAR (analysis); CARBOHYDRATES (metabolism); FEMALE; GESTATIONAL AGE; GLUCOSEPHOSPHATASE (analysis); LIVER GLYCOGEN (analysis); LIVER (enzymology); MATERNAL-FETAL EXCHANGE; METHYLMERCURY COMPOUNDS (toxicity); PREGNANCY; RATS.

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ACYLTRANSFERASES (metabolism); ADIPOSE TISSUE (enzymology); ANIMAL; EPINEPHRINE (antagonists & inhibitors, pharmacodynamics); FATTY ACIDS, NONESTERIFIED (metabolism); GLYCEROLPHOSPHATE (metabolism); INSULIN (pharmacodynamics); LIPID MOBILIZATION (drug effects); PROPANOLOL (pharmacodynamics); RATS; TIME FACTORS.

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[HEMODIALYSIS TREATMENT OF TERMINAL KIDNEY FAILURE COMPLICATED BY DIABETES MELLITUS] Sorkin KhL, Soritselli RR, Klar DE *Urol Nefrol (Mosk)* 13-5, May-Jun 78 (Rus) DL/78OCT618

DIABETES MELLITUS (complications); ENGLISH ABSTRACT; HEMODIALYSIS; HUMAN; KIDNEY FAILURE, CHRONIC (therapy); MIDDLE AGE.

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ADENOSINE TRIPHOSPHATASE (analysis); ADENYL CYCLASE (analysis); ANIMAL; CELL FRACTIONATION; GUANYL CYCLASE (analysis); GUINEA PIGS; MYOCARDIUM (enzymology, ultrastructure); OUBAIN (metabolism, pharmacodynamics); SARCOLEMA (enzymology, ultrastructure).

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CARBOHYDRATES (metabolism); CARBON RADIOISOTOPES; ENGLISH ABSTRACT; HUMAN; INTESTINAL ABSORPTION; IODINE RADIOISOTOPES; LIPIDS (metabolism); POSTGASTRECTOMY SYNDROMES (metabolism); STOMACH (surgery).

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ANIMAL; BRASSICA; CALCIUM (metabolism); CHLOROQUINE (antagonists & inhibitors, pharmacodynamics); GLUCAGON (pharmacodynamics); LASALOCID (pharmacodynamics); LIPID MOBILIZATION (drug effects); MALE; MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (metabolism); NOREPINEPHRINE (pharmacodynamics); OILS; RATS; TRIGLYCERIDES (metabolism).

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ANIMAL; CALORIC INTAKE; CHOLESTEROL, DIETARY (adverse effects); CORONARY DISEASE (etiology, occurrence); DIETARY FATS (adverse effects); EUROPE; HUMAN; HYPERCHOLESTEREMIA (complications); HYPERLIPIDEMIA (complications); HYPERTENSION (complications); JAPAN; LIPIDS (blood); LIPOPROTEINS, HDL (blood); LIPOPROTEINS, LDL (blood); LIPOPROTEINS, VLDL (blood); MALE; RISK; SMOKING (complications); SODIUM CHLORIDE (adverse effects); U.S. GOVT SUPPORTED, N.I.H. ; UNITED STATES.

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A HUNDRED YEARS OF THE HEPATOTROPIC CONTROVERSY. Starzl TE, Porter KA, Francavilla JA, Benichou J, Putnam CW *Ciba Found Symp* 111-29, 1977 (Eng) DL/78OCT324

ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (metabolism); ANIMAL; CELL DIVISION (drug effects); COMPARATIVE STUDY; DIABETES MELLITUS, EXPERIMENTAL

(physiopathology); DISEASE MODELS, ANIMAL; DOGS; ECK FISTULA; GLUCAGON (pharmacodynamics); HEPATIC ARTERY; INSULIN (pharmacodynamics); LIVER CIRCULATION; LIVER REGENERATION; LIVER (blood supply, cytology); PANCREATCTOMY; PORTAL VEIN; U.S. GOVT SUPPORTED, N.I.H. ; U.S. GOVT SUPPORTED, NON-N.I.H.).

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Diabetes Literature—Author Index

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Ciba Found Symp 217-28, 1977 (Eng)
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AMINO ACID SEQUENCE; ANIMAL;
BIOTRANSFORMATION; DIABETES
MELLITUS, EXPERIMENTAL (metabolism);
INSULIN (metabolism); LIVER GLYCOGEN
(biosynthesis); LIVER (cytology, metabolism);
NERVE GROWTH FACTOR (metabolism);
NONSUPPRESSIBLE INSULIN-LIKE ACTIVITY
(metabolism); PROINSULIN (metabolism);
RATS; RECEPTORS, INSULIN (metabolism);
RELAXIN (metabolism); RNA (biosynthesis);
STRUCTURE-ACTIVITY RELATIONSHIP; U.S.
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INSULIN-INDUCED LIVER HYPERPLASIA:
EVIDENCE FOR A NEGATIVE LIVER-SIZE-
CORRECTING PROCESS. Steiner DF *Ciba
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ANIMAL; BODY WEIGHT; CELL NUMBER;
DIABETES MELLITUS, EXPERIMENTAL
(pathology); DNA (analysis, biosynthesis); HALF-
LIFE; HEPATOMEGALY (pathology); INSULIN
(pharmacodynamics); LIVER (drug effects,
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MELLITUS (chemically induced, metabolism);
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FEMALE; HUMAN; MALE; MENOPAUSE (drug
effects); PREGNANCY; PROGESTATIONAL
HORMONES, SYNTHETIC (adverse effects,
metabolism); TIME FACTORS.

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DIALYSIS WITH A SUBCUTANEOUS
PERITONEAL CATHETER IN END-STAGE
RENAL FAILURE IN DIABETES MELLITUS.
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metabolism); GLUCOSE (metabolism);
GLUCOSEPHOSPHATES (metabolism); IN
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GLYCOPROTEIN HORMONE BETA SUB-
UNIT SEQUENCES: IMPLICATIONS FOR
RECEPTOR BINDING SPECIFICITY. Stewart
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GLYCOPROTEIN HORMONE BETA SUB-
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RECEPTOR BINDING SPECIFICITY. Stewart
M, Stewart F *J Mol Biol* 116: 175-9, 15 Oct 77
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AMINO ACID SEQUENCE; FSH (analysis);
GONADOTROPINS (analysis);
GONADOTROPINS, CHORIONIC (analysis);
HUMAN; LH (analysis); RECEPTORS,
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(biosynthesis); PYRUVATES (metabolism);
RATS; STEROLS (biosynthesis);
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(pharmacodynamics); KINETICS;
MACROMOLECULAR SYSTEMS;
PHOSPHODIESTERASES (metabolism);
REVIEW; U.S. GOVT SUPPORTED, N.I.H.); 2,3-
CYCLIC NUCLEOTIDE
PHOSPHODIESTERASE (metabolism); 3,5-
CYCLIC AMP PHOSPHODIESTERASE
(metabolism); 3,5-CYCLIC GMP
PHOSPHODIESTERASE (metabolism).

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MITOCHONDRIA WITH ALLOXAN
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DIABETES MELLITUS (complications);
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HEMOGLOBIN-FREE MEDIUM. Sugano T,
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Diabetes Literature—Author Index

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INSULIN-REACTION TEST FOR DIAGNOSIS OF LOW RENAL THRESHOLD FOR GLUCOSE IN AFRICAN DIABETICS. Umez-Eronini

Diabetes Literature—Author Index

Unger RH

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ADULT; BLOOD SUGAR (analysis); DIABETES MELLITUS (metabolism); DIABETIC NEPHROPATHIES (diagnosis, metabolism); FEMALE; GLYCOSURIA, RENAL (diagnosis); HUMAN; HYPOGLYCEMIA (diagnosis); INJECTIONS, INTRAMUSCULAR; INSULIN (administration & dosage, diagnostic use); KIDNEY (metabolism); MALE; MIDDLE AGE; NEGROID RACE; NIGERIA.

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[SELECTIVE HYPOALDOSTERONISM WITH HYPERRENINEMIA IN A DIABETIC PATIENT (AUTHORS TRANSL)] Takeda R, Morimoto S, Saito Z, Mabuchi H, Uchida K, Usukura N, Miyamori I, Miyamoto M, Kishitani M, Hashiba T, Su Kim K, Hirai J, Yamamoto I *Nippon Naika Gakkai Zasshi* 67: 278-83, 10 Mar 78 (Jpn) DL/78OCT443

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ADOLESCENCE; ADOLESCENT PSYCHOLOGY; CHILD; DIABETES MELLITUS, JUVENILE (psychology); HUMAN; PARENT-CHILD RELATIONS.

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BLOOD SUGAR (analysis); CELLULOSE (administration & dosage); DIABETES MELLITUS (diet therapy); DIETARY FIBER (administration & dosage); HUMAN.

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ADULT; AGED; DIABETES MELLITUS (complications, urine); HEMODIALYSIS; HUMAN; KIDNEY FAILURE, ACUTE (complications, etiology, urine); MIDDLE AGE; OLIGURIA (etiology); SODIUM (urine); UROGRAPHY (adverse effects).

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ACIDOSIS (etiology, veterinary); ANIMAL NUTRITION; ANIMAL; CATTLE DISEASES; CATTLE; FEMALE; GLUCOSE (metabolism); HYPERLIPEMIA (etiology, veterinary); LIPIDS (metabolism).

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ADOLESCENCE; CHILD; DENTAL CARIES (occurrence); DIABETES MELLITUS, JUVENILE (complications); ENGLISH ABSTRACT; HUMAN.

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BLOOD SUGAR (analysis); FEMALE; GASTRIC JUICE (secretion); GASTRIC MUCOSA (secretion); GASTRINS (blood); HUMAN; INTRINSIC FACTOR (analysis); MALE; PENTAGASTRIN (diagnostic use); PEPSIN (secretion); SECRETORY RATE (drug effects); SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics).

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ANIMAL; BIOLOGICAL ASSAY; GASTRIC JUICE (secretion); GLUCAGON (secretion); HORMONES, SYNTHETIC; INSULIN (secretion); PENTAGASTRIN (pharmacodynamics); PROTEIN CONFORMATION; RATS; RECEPTORS, HORMONE (metabolism); SOMATOTROPIN RELEASE INHIBITING HORMONE (analogs & derivatives, metabolism); SOMATOTROPIN (secretion); STRUCTURE-ACTIVITY RELATIONSHIP.

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UTILIZATION OF THE PERFUSION OF SURVIVING ORGANS IN TOXICOLOGICAL ANALYSIS. PREPARATION OF TOLBUTAMIDE, GLUTETHIMIDE AND CYCLOBARBITAL METABOLITES UTILIZING THE PERFUSION OF THE SURVIVING RAT LIVER. Hatle K, Vecerek B, Lutovska M, Perina M *Cas Lek Cesk* 117: 395-9, 31 Mar 78 (Cze) DL/78OCT302

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ALANINE (metabolism, pharmacodynamics); CASE REPORT; CHILD, PRESCHOOL; FATTY ACIDS, NONESTERIFIED (blood); GLUCAGON (therapeutic use); GLUCONEOGENESIS; GLYCERIN (blood); HUMAN; HYPERINSULINISM (complications, drug therapy, metabolism); HYPOGLYCEMIA (drug therapy, etiology, metabolism); INFANT; MALE; PHENYTOIN (therapeutic use); PYRUVATES (blood); TRIGLYCERIDES (blood).

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GASTRIC JUICE (secretion); GASTRIC MUCOSA (drug effects); HUMAN; INSULIN (pharmacodynamics); LIVER (surgery); MALE; STOMACH (surgery); VAGOTOMY (methods).

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ADENOSINE CYCLIC-3,5-MONOPHOSPHATE (metabolism); ANIMAL; CATECHOLAMINES

(pharmacodynamics); EPINEPHRINE (pharmacodynamics); HEART VENTRICLE (drug effects, metabolism); IN VITRO; KINETICS; MYOCARDIUM (metabolism); NOREPINEPHRINE (pharmacodynamics); PHENTOLAMINE (pharmacodynamics); PHENYLEPHRINE (pharmacodynamics); PROPRANOLOL (pharmacodynamics); RATS; U.S. GOVT SUPPORTED, N.I.H.).

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ANIMAL; ANIMALS, NEWBORN; CHRONIC DISEASE; DIABETES MELLITUS; EXPERIMENTAL (therapy); DISEASE MODELS, ANIMAL; GLUCOSE (metabolism); GRAFT SURVIVAL; HUMAN; INSULIN (metabolism); ISLANDS OF LANGERHANS (transplantation); PANCREATECTOMY; PANCREATITIS (surgery); RATS; RATS, INBRED LEW; STREPTOZOTOCIN; TISSUE CULTURE; TISSUE PRESERVATION; TRANSPLANTATION, AUTOLOGOUS (transplantation); TRANSPLANTATION, HOMOLOGOUS (transplantation); U.S. GOVT SUPPORTED, N.I.H.).

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ANIMAL; CALCIUM (metabolism); EXTRACELLULAR SPACE (ultrastructure); GLYCERIN (metabolism, pharmacodynamics); HEART ATRIUM (ultrastructure); HEART VENTRICLE (ultrastructure); HEART (drug effects); INTERCELLULAR JUNCTIONS (ultrastructure); MALE; MITOCHONDRIA, MUSCLE (ultrastructure); MYOCARDIAL CONTRACTION (drug effects); MYOCARDIUM (metabolism, ultrastructure); MYOFIBRILS (ultrastructure); PERFUSION; POTASSIUM (metabolism); RATS; SARCOLEMMMA (ultrastructure); SODIUM (metabolism); WATER (metabolism).

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BLOOD PLATELETS; BLOOD SUGAR (analysis); BLOOD TRANSFUSION; BLOOD UREA NITROGEN; CARDIOPULMONARY BYPASS; COMPARATIVE STUDY; DRAINAGE; FIBRINOGEN (analysis); HEMATOCRIT; HUMAN; OXYGENATORS; OXYGENATORS, MEMBRANE; PROTHROMBIN TIME; THORAX.

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ACETYL CARNITINE (metabolism); ALCOHOLISM (metabolism); ANIMAL; CARNITINE PALMITOYLTRANSFERASE (metabolism); CARNITINE (metabolism); FATTY ACIDS (metabolism); IN VITRO; MALE; MITOCHONDRIA, HEART (metabolism); OXIDATION-REDUCTION; OXYGEN CONSUMPTION; PALMITOYL CARNITINE (metabolism); PYRUVATES (metabolism); RATS; U.S. GOVT SUPPORTED, N.I.H.).

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ACIDOSIS (complications, metabolism); ACIDOSIS, RESPIRATORY (metabolism); ANIMAL; BLOOD PRESSURE; CARBON DIOXIDE (pharmacodynamics); CORONARY DISEASE (complications, metabolism); ENERGY METABOLISM; HEART (drug effects, physiopathology); HYDROGEN-ION CONCENTRATION (physiology); IN VITRO; MITOCHONDRIA, HEART (metabolism); MYOCARDIAL CONTRACTION; MYOCARDIUM (metabolism); NAD (metabolism); OXIDATION-REDUCTION; PERFUSION; RATS; U.S. GOVT SUPPORTED, N.I.H.).

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REPORT; ESTROGENS (blood); FEMALE; FSH (blood); GLUCAGON (diagnostic use); HUMAN; LH (blood); MALE; MENOTROPINS (diagnostic use); OLIGOMENORRHEA (etiology); PITUITARY HORMONE RELEASING HORMONES (diagnostic use); PSEUDOHYPOPARATHYROIDISM (blood, physiopathology); U.S. GOVT SUPPORTED, N.I.H.).

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ALLOXAN; ANIMAL; AORTA (enzymology); BLOOD SUGAR; BODY WEIGHT; DIABETES MELLITUS, EXPERIMENTAL (drug therapy, pathology); DIABETIC ANGIOPATHIES (enzymology); DNA (blood); HYDROLASES (metabolism); INSULIN (therapeutic use); KINETICS; MALE; RATS; STREPTOZOTOCIN; TIME FACTORS; U.S. GOVT SUPPORTED, N.I.H.).

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CASE REPORT; **CONSCIOUSNESS DISORDERS** (chemically induced); **DIABETES MELLITUS** (complications, drug therapy); **DRUG INTERACTIONS**; **FEMALE**; **FEVER** (chemically induced); **HUMAN**; **HYPOGLYCEMIC AGENTS** (administration & dosage, adverse effects); **MALE**; **MIDDLE AGE**; **MUSCLE RIGIDITY** (chemically induced); **SCHIZOPHRENIA** (complications, drug therapy); **TACHYCARDIA** (chemically induced); **TRANQUILIZING AGENTS** (administration & dosage, adverse effects); **TREMOR** (chemically induced).

[A CASE OF A BARTTER SYNDROME-LIKE DISEASE WITH HYPER-INSULIN, GROWTH HORMONE SECRETION, IMPAIRED GLUCOSE TOLERANCE AND TEMPORAL RENAL INSUFFICIENCY (AUTHORS TRANSL)] Kurosawa M, Fukuda R, Odajima H, Kunugi S, Nishioka T, Sugiyama T, Ike A, Shimomura Y, Uehara T, Yamada M *Nippon Naika Gakkai Zasshi* 67: 284-94, 10 Mar 78 (Jpn) DL/78OCT444

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ANIMAL; **BLOOD SUGAR** (metabolism); **CALCITONIN** (pharmacodynamics); **MALE**; **RATS**.

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Diabetes Literature—Author Index

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CORONARY DISEASE (etiology, mortality); DIABETES MELLITUS (complications); DIABETIC ANGIOPATHIES (etiology, mortality); HUMAN.

FACTITIOUS HYPOGLYCAEMIA [EDITORIAL] Anonymous *Lancet* 1: 1293, 17 Jun 78 (Eng) DL/78OCT482

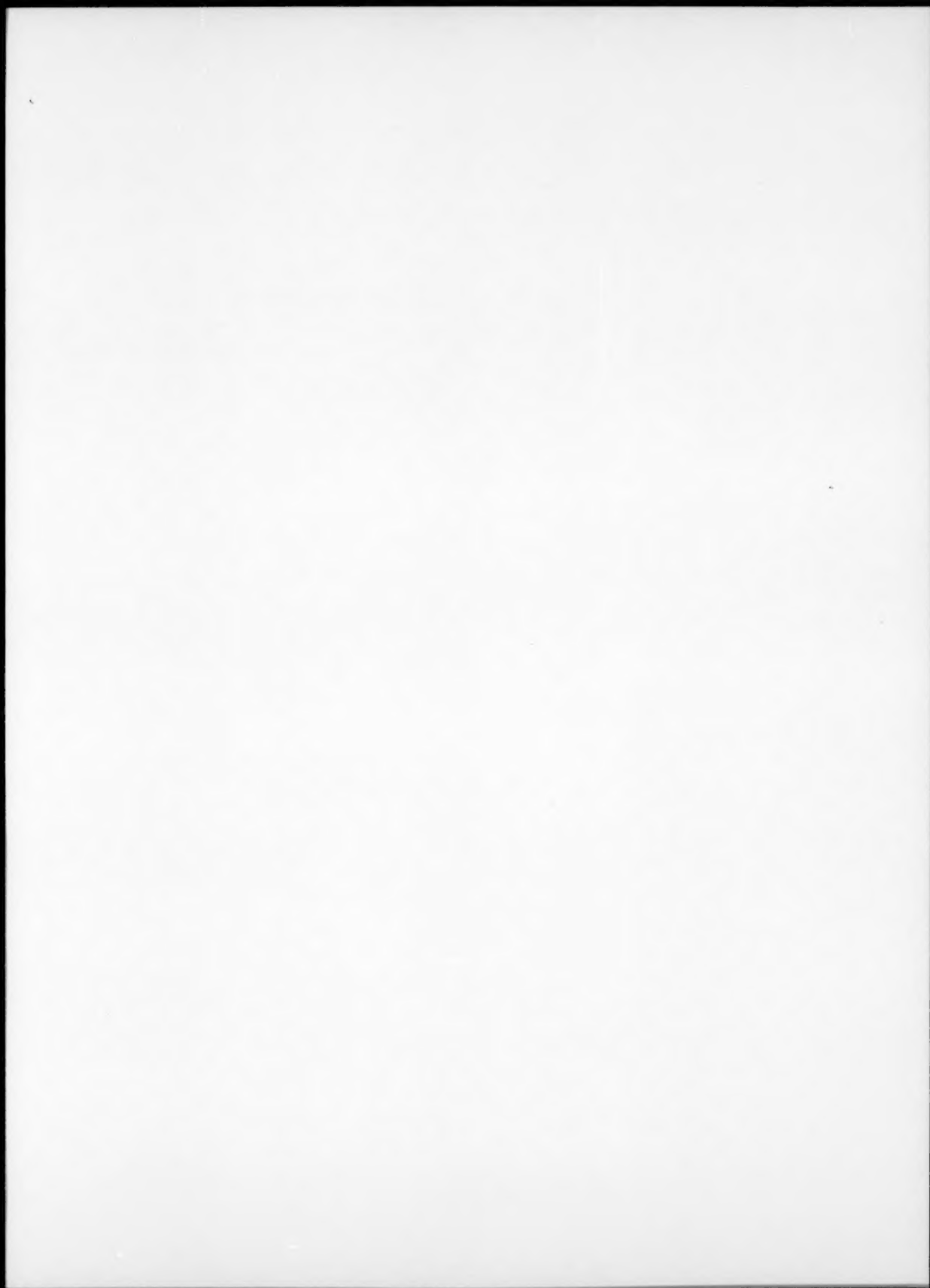
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DIABETES AND HYPERTENSION [EDITORIAL] Anonymous *Lancet* 2: 138-9, 15 Jul 78 (Eng) DL/78OCT491

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